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INSTRUCTION BOOK

AND
SPARE PARTS LIST

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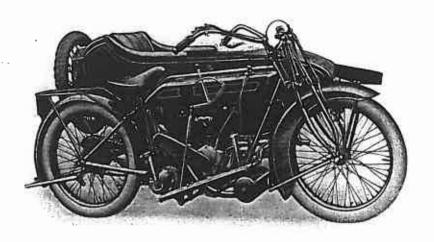
MODEL



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Stationard for British and S.

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" Marchless" Model J.

# H. COLLIER & SONS, LIMITED,

Manufacturers,

Registered Offices and Shawtonins:

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

Nearest Station: WOOLWICH ARSENAU, S.E.C.N.

Factory;
BURRAGE GROVE & MAKEY ROAD,
PLUMSTEAD, S.E.

Pelegrame & Cables - " Matchless, Wootmach."

Telephone - Wootwich 17 & 18.

Code Benilleys,

S Printe Code.

## General Description.

### STARTING.

Before describing the actual method of starting, it is prohaps advisable to explain the various lever positions. Neutral or free engine position of the gear is marked "N" on gent quadrant. Gear changing lever must be in the position marked, thus, for starting. Eguttom is advanced or rotarded by means of a lever fixed on left side of tank. To advance spark this lever is pushed backward; for storning it should be about two-thirds advanced. The throttle and air levers for earbureteer both open lowerds, the top lever operating the air, and the lower and longer one the throttle. For swetting, throttle should be about one-sixth open, and air completely clusted. The petrol is turned on when the lever on the tap to which the netrol 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 tens have been set as abuve, to start engine first flood the carburetter by depressing the butter on the float chamber until the petrol overflows. With the right foot give the kinksterter a sharp and vigorous push downwards; should the engine fail to start at the first rick allow the crank to go right back against the rubber buffer atop 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 kinkstarter crank with the emall gear up, the starting of the engine of the Model "J" will be found a far more simple overation than on any pravious model. When the coguro 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 letting the clutch by releasing gently the clutch podel. under way smartly depress clutch pedal again, and simultaneously shift gear layer into ascond gear position, releasing petal gently but amortly as angine teless up the drive, after which repeat the operation to obtain top goer. 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 opersting 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 gene it is advisable to make certain that the goer lever is fairly in angagement with the notabes in goer quadrant,

#### DRIVING.

In driving it will be tound that the "Matchless" clutch becomes almost indespensable, particularly for slow driving on top gear, rounding very soute corners, riding in traffic, etc., obvisting much of the increasant goar 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 dutch may be slipped whenever necessary for comfortable and easy driving without the slightest fear of barmful 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 ble mount, we issue herewith detailed description and adjustment advice on all important units, together with useful illustrations. A coreful 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 excess desire

The Spares Section has been compiled to enable customers to correctly specify their requirements when renewals of any part are necessary (see Pages 16 & 19 for Instructions of Ordering Parts and particulars of Deposit Account System).

H. COLLER & SONS, LTD.

instructions appertaining to seems are carefully cavied 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 keeping. When according 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 year then be under the ignition about he again advanced, as the speed of the angine 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 see it in returning the descent. We do not, however, under any arrownstances, recommend using the bottom gear for this purpose owing to the enormous strain imposed upon the rear driving chain.

## "DON'TS" IN DEIVING.

- DO NOT allow the gear dogs to knock whon engaging the low gear for starting. Push the clutch farther out of engagement and all knocking will coose.
- DO NOT allow the engine to lebour on high goes on a steep gradient.
  An pasier, laster and better useent can be made on the next
  lower goes.
- DO NOT make a practice of abarting on second speed.
- DO NOT under any circumstances allow the chains to ron very slack or very dry. Either will soon cause trouble, and adjusyments are easy.
- DO NOT overlook signs of harshmes in transmission or fierceness in clutch operation. Both print to need of lubricant,
- DO NOT force engine or drive above a maximum speed of 25 m.p.b. for the first 500 miles. Mention is made of this warning of account of the natural desire of a new owner to according the mount's maximum expabilities. However, until all hearings are well run in, etc., it is advisable to refrain from speed bursts and the accompanying possibility of seized hearing, piaconrings, etc. The first 500 miles of an engine's existence in far more important than the next 5.000.

## LUBRICATION.

It is practically impossible to lay down rules for engine labrication owing to the verying 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 proportionalely to all conditions above normal. The quality of oil to be used, however, is of vital importance, and we particularly recommend our nations to use only the very heat branch, a good example being Walterfield's Castrol "C" Winter Grade, which will be found suitable in both winter and summer. Of equal importance to the engine is the lubrication of such parts as clutch, chains, for a spindles, etc., which should be doesn with systematically as follows:

### CLUTCH.

Lubricate with special Foliac Graphite grease and oil mixture every 200 miles of ordinary tunning 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 hards or jerky transmission, and no such algoes should be ignored. Should the oil which is injected into the reservoir on the god 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 an aircumstances must be labrication of clutch surfaces be ignored. The self-filling oil injector provided renders to superation one of seconds only.

#### CHAINS.

It will probably be found that the chains will receive sufficient of from the clutch and gear box if the respective inbricating instructions of those parts are carried out. They should, however, be inspected periodically and oiled if necessary. At least once each sessue the reschain should be removed, and after cleaning theroughly seaked in molten tallow. (Engine oil will serve as a power substitute.)

## PORK SPINDLES,

Every 200 miles grease abould be forced through the fork spindles by means of the grease pump provided until the grease can be observed exacting from either and of spindic bearings. (Special Foliae Graphite Graps recommended as a Libricant)

### GEAR BOX.

Every 500 miles the gray 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 exacting from each side of the spindle, (Speedwell Medium Transmission Orease or Princ's "Belmoline" Medium Grade, specially recommended as a tubricant.)

In addition to the foregoing, all parts, such as brake and gear red joints, etc., should receive a few drops of oil occasionally, un-licularly to bad weather.

## TO LUBRICATE BRAKE DRUM BEARING,

On models prior to 1923 no provision (other than diamenting) has been made for the lubrication of the above, which is of the frictionless double roller type and being packed with gross during assembling, in the ordinary cause of events no further lubricant should be required. It should be explained that the primary object of this grosse in to prevent the formation of rush 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 losse adjustment of the rear wheel bearing, it has been not sidered advisable to provide some case means of injecting fresh grease. A small hole is therefore drilled through the inner end of the roller electors.

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 sool kit. Owners are warned, however, against adding grouse to this bearing unless some signs are evident that same is needed, such as squeaking, etc., so an excess of lubricant may bud its way into the brake drom interior and render the rear brake inefficient in action. Injector 1/8 full is emple if and when required (Foliac Gream recommended).

## ADJUSTMENTS.

#### ENGINE.

To Adjust Valve Tappels. Hold tappet head, Part No. HE.4794, with adjustable epanner, and sleck off thin lock not, Part No. H.E. 4107, with special thin engine appearer, then using the small and of the same spanner on the tupped body. Part No. H.E. 40%, screw up or down as desired. When the correct adjustment has been obtained the bead must be securely looked with the thin looking nut.

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

## TO ADJUST VALVE LIFTER WIRE.

Slack off small lock nut seeming valve lifter outer easing stop, and sures the stop out until correct adjustment is obtained.

Norz.-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 costings.

## TO REMOVE OYLINDERS.

Unserew knowled-edge cap from cop of carburetter and draw out valves and cables. Then unsarew the petrol pipe union nut at tank end. after which remove inlet pipe and carboretter enlinely. Next remove oil pipe; then remove both nuts securing magneto chain case, and take off the nuter half of same. Then remove the not occurring each magneto chain sprecket, after which, with a lever bohind the chain case, at each end in turn, force off the sprochet. Then remove the four bolts securing magneto platform, and after detaching ignition red and ignition cables then remove magneto antiraly. Both exhaust pipe note should then be unscrewed, after which specking place and valve caps (if it is desired to remove the valves) should be unacrowed. The cylinder nuts should then be taken off, and with the pistons at their lowest point, the cylinders can then be removed with case.

The return should be made in the reverse order, care being taken when reflitting cylinders to keep the faces quite close and cylinder walls smoored with oil. We recommend coating the cylinder base when ready for assembling with Secretine or quick-drying gold size. Too much care cannot be exercised to provent the admission of any dust or foreign matter, and while on this subject we particularly were owners against the usual practice of using the top of tank as a reating place for note and pins, etc., which can at the least jar fall into crankease interior while cylinders are removed.

The base of cylinders, just prior to refitting, should be amended with a little secontine or quick-drying gold size as mentioned shove,

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

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

#### TO RE-TIME MAGNETO.

Revolve the engine by head 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 tolet valve has closed). Then with ignition lever in fully advanced position, and magneto sprocket loose on shaft (the other approaches beging been previously tightened), turn the magnetoarmature backwards until the points are just about to break on the No. 1 uam. Holding carefully in this position tighten up the magneto speecket

NOTE.—The operation of techning ranguetre, although remaring care, does not to say way justify the alarm with which many notices view it. A good test for correct timing after the foregoing instructions have been contrict out is as follows:

Start up the engine and fully retard ignition With throllie fully open the ougine should run at about 1,000 to 1,200 revolutions per minute, i.e. at about the same street as at 20 to 25 miles ser 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 sighten the nuts which fix magnete aprockets, commencing first with the one on the cam shaft.

#### TO ADJUST MAGNETO CHAIN.

It will be observed that magento-chain adjustment is obtained by allding the megneto 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 \{ to \text{-finch is solating.} After any adjustment has been made, the four small boils which accure magneto platform bracket to engine cradle plates should be eccurely tigatened.

## TO REMOVE TIMING GRAE.

Remove magneto chain case and approchate as previously described, and take off the remaining nuts securing timing goar cover. Then pull up valve lifter wire by hand, at the same time holding the covering time stationery. Then holding in this position remove the slotted car, Part No. H.E.4923, then push the tabe up until the nipple is exposed, and detach wire by pushing through the slotted side of bress yoke end. Then unsorew the brees yoke end, after which remove hexagon screwed comp and spring, Part Nos. H.E.4678 and H.R.4290. Theo pull upwards on valve lifter rod and as the same time gently tap off the timing genr cover until the lifter rod vields, and is free to move up and

dism. Care must. This document was created for free distribution in the AJS/Matchless Egroups - do not resell with the cover plate, and owing to the tendency to do so, it is advisable to occasionally kup the end of cam shaft when withdrawing the cover plate to provent this happening. The thining gear to now expected, and valve lifter will remain to cover plate.

## TO REMOVE DAM WHEEL.

Revolve the engine until the marks on timing goars coincide, then raise the back exhaust apper with a scrawdriver or some other suitable instrument and insert a distance piece (a panny or two-shilling piece will sorve) between the crank case and lowest part of tappot head. The cam wheal is oben free to be pulled out.

## TO REPLACE CAM WHEEL AND GRAE COVER.

With back exhaust tappet raised as described above, hold all four cam levers up and gently insert cam whosl with mark at the bottom to coloride with murk on small pinion. See that exhaust valve lifter is in place in cover. After carefully cleaning the faces of cover and smnarring with quick-drying gold size or Seccotice alide on to carn spindle as far as possible, then draw the later rod as high as possible and caroful; tap the cover on until about linch from the case, then push valve lifter rod drawn 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 temperto chain, etc., should be fitted as described previously (see Magneto Timing).

## TO INSPECT GEAR BOX INTERIOR.

To remove gear-box and plate for examination of geam remove blue aluminium cap covering kickstarter ratchet pinion, then take off the small rate on the and of driving shalt and remove spring and ratellet pinion. Then unscrew the surches but (serviced right hand thread). This, with constant use, may have become lightly fixed, and some force may be required to loosen. Then remove kickstoner crank and spring, and all nuts securing and place. Then draw off valve lifter laver, and cable esteechment, after which the end plate may be gently forced off, leaving the geam exposed.

Nors -While the end plate is being removed a pan or some receptable must be placed undersouth to saich the oil, the bulk of which will run out. When re-assembling, the faces of the end plate and gear box must be thoroughly downed, and a new poper wanter used if the old one has been damaged. Prefundly coat with quick-drying gold size.

## GRAR ROD ADJUSTMENT.

Should any tendency develop on the part of top or bottom gence to jump out of engagement, the adjustment of gear rod must be at once inspection. This roc must be adjusted each time an alteration is made to the position of gear box (see Front Chain Adjustment). To test for correct softing of gest and proceed as follows:-

remove the bolt from top of goar rod and gently pull the rod upwords, at the same time moving rear wheat to and its until the top goar is engaged. Then holding the rod in this position torse the gent lever into top year position, and after the length of rod by surrewing summ in or out of the cross head on guar-striker laver as the need may be, until the rod is of correct length to allow the bolt at the top and being introduced without any pull on rod being required. Before fixing this built, 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 geer position, but correct to top gear, it should be shortened to make the insecuracy equal in each. Mention is made of this coung to the fact that in order to provide for wear on the numerous joints, the good 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 inciditate noiseless gear changing.

## TO DISMANTLE HUB BEARINGS.

After wheel has been removed (see Removing Wheels), alack off the large octagonal nut scentring the right side scrawed unjusting ball cap (using special spanner provided). Then using the hexical and of same spanner, turn this acrewed out in a left hand firrection until no further outward movement is obtainable, indinating that the threaded cup is entirely clear of threaded hub flange. Then by means of a brass punch sightly smaller in diameter than the ends of hollow wheel spindle, drive the spindle from the left aids clear of the metal glend cap washer which is merely a force fit on spindle and. 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 helb (each side) may be secured in their respective cups by applying thick greams and the correct adjustment of bearing should be obtained before the glund cap weathers mentioned above are again driven on the ends of apindle. It is of the greatest importance that the large octagonal locking out he securely tightened. A few sharp hummer taps applied to the end of the special spanner being advisable. If the telt washers fitted underneath the motol gland washers show signs of dryness or berdness they should be thoroughly seeked in oil before being reditted, after which the metal washers should be lightly driven down until contact with the felt washer is obtained

Norz -The friction set up by these washers will rapidly wear off, and under no circumstances should the adjustment of learnings 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 wheat (see Instructions), Then detach connecting link of rear chain. Shank off considerably the large not securing brake drum centre sleeve with large single and lox spanner provided and after disconnecting rese brake rod twist the whole assembly outil the projection on year fork end is clear of the slotted body in brake cover

place in which it operate his document was created for free distribution in the AJS/Matchless Egroups - do not resell PEDAL. packwards clear of him slotted fork and. Then with a layer force the hooked and of brake pull off opring 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 alcove and rollers may be withdrawn. To re-assemble it will be found convenient to accure the rollers to the center shawe by applying growse, when the whole may be gently forced into premion after which the dovoring cap should be screwed thown tightly.

When filling on the cover plate, gave must be examined to ensure proper engagement of the small dowell pin fitted near the centre with corresponding hole in centre shave. The object of this pin, it might he explained, is to prevent the closes turning upon tightoning the large

and by which the entire assembly is secured to lock end.

Nors.—It is of the utmost importance that this large nut is kept securely tightened. (See Reference on Page 13, Periodica; Inspection of Nute )

### CLUTCH ADJUSTMENT.

When delivered the clutch will be found to possess a comfortable therein of grip. Slight adjustment either way can be effected by tightening or shaderling the apring pressure, as may be desired. Should the clutch develop a tendency to slip under full load, the adjustment of the clotch nedal hall larges races must first be suspected tace Adjustment of Clutch Pedal Bearings). If this adjustment is found O.R. remove the top portion of front chain case, and with the special tubular box key and tummy provided lighten in turn each of the six clutch spring buts about helf of a turn only, after which give another trial, This may be repeated if found meresany, but under no circumstances should these note be somewed up sufficiently to prevent the clutch effectively disconniging. Should the clutch on the color hand, develop a tendency to become norsh in action, although properly lubricated (see Oiling instructions), the clutch spring nuts should be estefully showed off to turn not more than one complete turn between each restrict.

Norm.—It is important that cure is exercised in each of these eperations to adjust such of the six nuts a similar amount. To re-set after complete dismonthing screw each not up in turn mail considerable resistance is felt, indicating that spring is completely compressed, after which shock out four complete revalutions each out in turn.

## CLUTCH PEDAL ADJUSTMENT.

When the clutch pedal thrust races are correctly adjusted there should be a distinct free movement of the pedal portlor, before the resistance of the spring pressure is felt. Should this Iree movement not be supurent, remove the screwed and cap (containing oil reservoir and tabe), also returne, the order left-hand threaded nut that the removal of the end cap will expres. Then remove the washer under this aut and carefully slack off the inside loft-band threaded out not more than half a turn below re-trial. Then replace the special washer and outer nut, occurally lacking the latter in position. Repeat if found necessary, after which replace and cap, leaving off hole uppermost.

The clutch padal abould be set to allow the rider to control the movement of same in its entire range with both heal and toe. When delivered it is set suitable for a person of average height but if found inconvenient to operate as described, stack off the top but on anchoring and and revolve medal to the desired position. A much cosies said liner clutch maripulation will be obtainable with the clutch pecal set correctly. The sucher rod not referred to does not need excessive tightening.

## TO ADJUST FRONT OHAIR,

Slack off the mats securing the top ends of genr box straps, and using the kicksteater crank as a level, revolve the gear box in its incusing to the required direction (vis., backwards as in starting the ongine for sightening, and the reverse direction for alackening). Core must be taken after adjustment has been made to securely tighten the gear box strap note. Correct adjustment of the chain should allow a movement of \$ir., 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 year box, the gear operating rod rougt also as 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 alsok off large put only on ble left side of rear wheel, and also the isrge but on right side. Then scrow up ar, equal amount each side chain adjuster but (i.e. small nut at end of fork end) until a whip of gin, to gin is obtained by preesing chain up and down. In making this text, tengion of chain should be tried in a number of places, and the correct adjustment obtained for the lightest place. When correct adjustment has been obtained securely righten each of the large mute.

Nors. -Before tightening rear chain the adjustment of front chain should be inspected, and it attention to each is required the latter should he treated firms.

## TO ADJUST STREETING HEAD.

The steering head should be occasionally tested for adjustment by exerting pressure upwards from the extreme tips of the handlebors. Sticuld any shake be apparent slack off handlebar clip balt and lighten down the large nut which encircles the handlebar stem until all signs of alsokness have disappeared, after which accurally tighter elip bolt not.

Nore -Want of adjustment will also make itself falt by a distinct tendency of the front wheel to wabble when the hands are removed from headleber.

Put down stand. (The seriest method of lifting rear of cycle on to stand is to hold the cross has of stand with the left foot and raise the weight of cycle from the luggage carrier.) Fintirely remove the small nut on left hand end of spoudle 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 branchission in any way.

To replace, hold the wheel up until the spiralle can be inserted to carry the weight, then turn the whool showly, 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 hundle will be across the slotted fork and, and holding in this position replace small not on left hand side and securely tighten large nut on right hand side.

Nove.—It will be found advisable to hold the right hand side chain adjuster tight against the inside of fork and while the fistiened coller on apindle is being passed through.

#### TO REMOVE PROST WHEEL.

Put down front stand. Slack off ruts on front brake pad holder clips and turn the pads outwards. Then remove spindle rut 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 put must be accurally hightened.

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

#### TO REMOVE SIDE WHEEL.

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

Nove, —When replacing fix whos! with driving dogs on left side as seen when seeded.

## 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 themoving Wheels). The large octagonal lock not should then be stacked of with the special spanner provided, and the threaded cup burned with the hooked and of spanner in a right-hand direction, until all chake is taken up, after which the looking not must be securely tight-ence after which the adjustment of bearing should be verified.

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

To obviate any mudguard broakages, 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 unsigneds 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 stand and mudguard fixing bolts should be kept tight, and also that the front and sidecar stand clip acrews are recommond that these tolts and mutt be inspected organizationally, and if necessary screwed in until the stand is quite stiff to operate. This care, in addition to having the desired effect as regards innegated support, will prevent any stand rattle which is common to many machines

### PERIODICAL INSPECTION OF NUTS (IMPORTANT).

It is advisable to percolleally run over all important note. Much rejustle 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 axis note, large note securing brake drum center sleeve, all mudguard outs, engine holt note, large note securing screwed yoke ands no aideear stays and connections, all stand bolts and note.

#### CLEANING.

If the machine is used to any extent in bad weather, for much removing a small hose is almost indispensable, but when using same care should be exercised not to direct water on to the engine and magnete or other such parts. If a hose is not available, seek durt with paraffin before removing. Do not attempt to tub or brush mud off an enamel surface when dry, or the polish will soon be destroyed. For engine, magnete, etc., a good stiff paint brush and a pot of petrol is preferable. Care should be taken with the sidgest body, which should be treated to the same manner as a carriage. The dirt, whether mud or dust, should be washed off gently with a soft apongs, and when clean wiped off with a week leather. To improve the polish a little lineced oil should be used negationally, 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 emposit oil to cause sticking or sluggish action when engine is cold. Conscally after a few accords' running this deposit softens sufficiently owing to the heat, to allow the valve to operate normally. This trouble, although not of once importance, should not be ignored. A simple remedy is to obtain a stiff brush, and while the origins is running, hold the brush scaked in paraffin against valve spring. The paraffin will be carried up the valve guide, and will rapidly soften the empraded deposit. If necessary, this operation should be repeated until no valve styling is noticeable when starting engine from ord. Any accumulation of oil or deposit on valve springs or valve stems should be weaked off occasionally with a staff brush and a little petrol.

INFLATION OF TYPES-(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 beadly any discernible flattlening. Care should be taken to keep the security bolts in all tyres tightened up.

## STOPPAGES AND THEIR CAUSES.

ENGINE SUDDENLY BYOPS. Probable cause:-

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

ENGINE ROWS BADLY. Probable cause: --

Valve sticking, Weak valve springs. Plug points too close. Witter on Plugs.

Air leakage (due to outs of itlet pips or carburation being

Paraffin in petrol or had pearel. Valve seating badly burnt. Scoty pluga.

Faulty magneto contacts.

Engine Will Not Start. Probable cause:-

Valve or valves stuck up. Contact breaker arm stuck. Water on plugs.

Choked jet.

Valves shoutched and not sented 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 Ohjof Constable or Corporation of a County Bornogh, or from the County Council. The charge for this licence is 5/- yearly, and must be renewed annually from the date of mans. A motor cer 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.

- 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 Agenta' invoice will werre.
- 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 eids of same showing a light forward, and is also provided with a lump which shows a red light to the reer. The lass regarding this latter does not state only particular place in which the rear lamp must be fixed.
- Never drave at a speed which is dangerous to the public.
- Whenever necessary, give sudible and sufficient warning by hern or other instrument of the approach of his motorcycle.

For registration purposes, the following particulars will be requized :---

Weight of cycle unladen ... 8-cwt. Weight of sidecar (if requested only) ... 1-cwt. 1-gr. It sideour is detachable (it requested only) ... Yes. Description or type of motorcycle ... "Matchiesa " ---Motorcycle. Position of front number plate ... ... On front mudguard, visible from aither side. Position of rear number plate ... ... On back end of carmer behind saddle and visible from

## GUARANTEE TERMS AND CONDITIONS.

the rear.

(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 quelity or ficuses 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 precentions which are usual and resconable 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 wift in three months any defects in these respects. As molemoveles are easily liable to dorangement by neglect or incluse, this Guerantes 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 rescounde, have been taken by us to secure excellence of meterial 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 smeed and limits 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 at 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 Greatantee, and he must also furnish us at the same time with the mucher 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 telest of anybling which may strive, but such articles will he here at the risk of the senders; and this Guarantee, or any amplied 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 apecialities of other firms, such as tyres, and dies, 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 say debts or transact any business whatsoever on our account other than the sale of goods which they may have purchased from us; not are slary authorised to give any warranty or make any representation on our behalf other than those contained in the above Guarantos.

## MACHINE NUMBERS.

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

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

The side-car 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.

Road carefully tules 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 spees 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.

OVERHAULING.

Our invariable rule in this department is not cash with order. Remittance to £1 in value may be sent by Postal Order, but over this amount it is advisable to result by cheque. Cheques to be used payable to H. Collier & Bons, Ltd., and crossed. When making remittance by Telegraph Money, the name and address of sender should be included, as notes: 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 smount is sent, and we have to wait until customer writes complaining about delay before the matter dan receive any attention. If remittance is not sefficient to pay for postage or carriage, grade will be sent "carriage forward" (Grade trace).

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 aften occurs that parts are required by resure, but customer not having a current account, there is the inevitable delay of "proforms "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 concorned, and can be sycided by opening a Deposit Account.

A remittance of not less than £d, emittee a customer to this form of account, and when roods are ordered by 'phone, telegram or letter they will be despatched at the carliest ressible 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 intracdiately their deposit becomes exhausted, so that they may resew same. We are at all times prepared to return belance of deposit upon request.

Kindly note, when ordering, to mention "Deposit" or quote reterance as shown on monthly statements.

## SPARE AND REPLACEMENT PARTS.

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

An expert chaff 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 attentional repairs being required, we attengly 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.

When sending a complete motorcycle, engine, year hux or other part with the request that we overhead same, we understand by the term "overhead" that it is to be entirely dismonthed, thoroughly removated, any worm part removed and put in perfect working order. In one a customer desires only certain parts attended to, explicit instructions should be given us to that affect, otherwise cost may be far in excess of what is anticipated.

#### ESTIMATES.

It is becaming a general practine for customers when sending their engines or complete motorcycles to us for repairs, to request a detailed astimate 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-recting, it is often found that other repairs or new parts are necessary, which it was impossible to locate when dismuniting.

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 normal charge is made for taking down and re-case abling.

All repairs accounts are strictly each before delivery.

## EULES TO BE OBSERVED.

- Parts sent to us for repair, coplecement, or as pattern must bear distinctly condor'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.
- Do not enclose each (whether in the form of coin or paper) with goods. Remittance should be sent by latter post for your own protection.
- Customers having no account with us should not fail to remit
  at the time of order and also to include pretage.
- When customer has no account, a Talagraph Munny Order will coours immediate attention.
- When making enquiries respecting any part on order or repair it is advisable to quote date of order.
- In case of doubt regarding extract name of part required it is advisable to send old part as pattern.

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## DAMAGE IN TRANSIT.

Our responsibility ceases when goods leave our works, and claims Our responsibility demons when goods leave our works, and claims trust be made on carriers in the event of damage occurring in transit. All goods easily damaged by rough bundling are consigned (when by rail) at Railway Company's Raik, 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 numediately reported.

Nove.—By Railway Companies special regulations, unless damage in transit is reposted within three days from receipt of goods, no claim

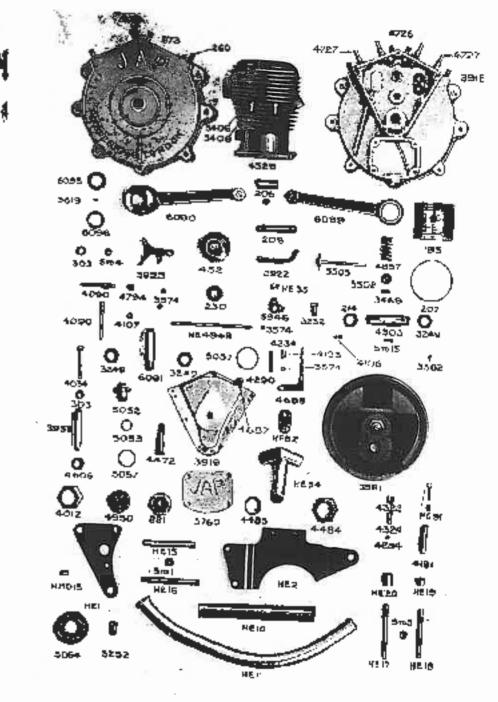
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## ENGINE PARTS.

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	90986	6 684 WHISTON BID AND	- 4
			4
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11-	4520	Cylinder only (back) 3 1	
٠,	260	Cylinder colding down stand	4
	603	Cylinder bolding down but for same	4
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	RAI	Cylinder valve cap (inlet)	99
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11	5B		2 6
71	8458	Union nut for above only	9
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71	5058	Washer for britising washer tan	3 0
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		ena stude complete p o	9 0
9	8918	Grankeane half (Linn gear side) with brokes and	, ,
		a 19	0
71	6760	Oil hot cap unity for above	
14	4105	herews for securing same	4
-1	9916	Tituling gent cover (see Valve year)	
17	4034	V-Canduser (bottom bolk)	[1
1.	1.8	Crankouse 5/16in. holt (short)	ii
	17	Crankcase 5/10in. bold (long)	11
	d	Crenkcase fin. bolt (long)	å
*1	3	Crankcase #in. bols (short)	ិទ

		21			
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11.12.		Spacing collar for same (long)			7
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H.E.	_	Nut for \$in. crankesse bolt			8
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	8574	CLEUKCHSS SDEX DOIL HOT			4
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	2000	FINCE)	J	8	0
- 1	6090	Connecting rod introd (supplied only with roller	-	·	-
	v_	1400	2	D	0
	57	Pair of rods complete with bushes and hig and	_		
		roller searing with crank nir	-1	10	Ĥ
**	. 40	Camwiled complete (assembled)	í	-0	-
	4082	NUL for securing magneto engales	٠		4
	9922	Call inver [front injet]		в	Ü
+1	8923	Open ideal (perk 10/01)		ű	ő
1.	5924	Came Jever (from garbanat)		6	ő
- 0	3926	CATO lever (heat exhaunt)		G	ő
- 4	3929	1:00 lever siret sies		ï	
		Cable for sparking pluge (see Magneso P. No. 22)		-	g
- 4	5895	WINDSCARP IN NOT ABLE BEFORE BLOCK			
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		D,			
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Ħ. <b>E</b> .	4472	Drain plug and filter (crankcase)			-
		to a contract of the contract		-1	8
		ж.			
$\mathbf{H}.\mathbf{E}.$	1A	Engine plate (front left)		4	я
•.	1	Einging plate (front right)		4	8
**	$2_{\rm A}$	Finging plate (mark left)		10	å
**	2	10mm minds /houle simbs)		ĬΟ	4
_ 2: _	16	Ongine log bolt hack			
S.Ť.D	1				8
		Engine riota figing halas to			5
		Engine plate fixing bolts (see crankcase bolts			
		P. No. 20)			
		Exhaust lifter (see valve lifter P. No. 25)			
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	15	Engine lug bolt (front)		_	8
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le le	12	Exhaust pips (sgil)			ıô.
9	1012	Exhaust pipe union put			10
17 12 13	87	Bunatest pipe union but coller		-	3
H F.B	. 4	Spacing tube between silencer supports		2	Ö
H.E.	18	Exhibite tail pipe clip lyg		ź.	ě
**	21	Tail pipe support bolt		_	ő
73	22	Tail pipe support bolt, long distance niese			rj
44.1	23	Tall pipe support belt short distance piece			
		- "A bern a same marrento hibbe			7

	•	£ s. d.
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13.B. 559 558 5580/559; 5406 4726/472;	7 Gudgeon pin cap (each) 7 Gudgeon pin with caps 8 Guiden for welves	2 B 5 5 7 2 9 2 7
H.E. 3 4484 4488	4 Inlet pape units, and	7 9 2 in 1 3
H E. 4102	Key for flywheal shafts	G
H M.D. 5 H E. 4092 H M.D. 6 . 12 . 49 . 19 . 18 . 14 S.T.D. 12 H.M D. 6 . 16 . 16 . 16	Not for securing to sem wheel shaft Magneto chain Magneto chain case (such only) Magneto chain case (front only) Magneto chain case (front only) Magneto chain case (front only) Magneto chain case strains collars Magneto plutform bracket (short side) Magneto plutform bracket (long side) Magneto plutform bracket (long side) Magneto base colt Magneto plug cable terroical only Sparking plug cable (front cylinder) Magneto (unit only) M.L. Magneto sprocket (seconder magneto peris) Magneto out (seconder magneto peris)	0 4 0 8 0 8 0 9 10 11 11 2 12 3 11 2 1 0 1 4 0 10 0 1 4 0 8 4
H.E. 3628 3903 3252 29 35 8468 8451	O.  Oil union (non-return raive senting)  Oil union (non-return valve disc.)  Oil plug top (behind rear cylinder)  Oil pipe only  Oil pipe top union out  Oil pipe buttom amon but  Oil pipe union for front cylinder with lock out	9 2 4 4 5 7 7 5 2



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		P.	•	•	۵.		H.E.		P v A
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	42	Pision with guideen pin		18		•		5400	White and a second
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F1	89	L'ORDON ANIMA LEAN L'ANNA CANALANA		- 6	4		- 11	540B	Valva guide (inlet or exhaust) 2 0
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		ß.				•	- 4	4290	Yalve lifter arrive
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hr.	<b>a</b> ttutt	NUE for geer side ahaft .			ż		495	0/881	VAIVO CAD (See crylinder)
1+	8582	Locking screw for shaft fixing nuts			ý				Y≅COOTO Yalve (see non-return valve P. No. 92)
19	26	Spathling plug		- 5	ā		- W	280	VENUE REAL STREET DIRIOU (NEW minion P. No. 9.1) 1 /2
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- 11	260	Store for holding down evlinder (see avlinder)			ā		-	88	I MAN TITOEL CHOID (CATASA)
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1 r	80	Study for halding down valve geer cove	aú .		-		1.	81	YMYO MITTER ACTUSTOR REED BUILT
		(medium)			б		11	88	Valve lifter edjuster support 1 8
- 11	31	Head for holding down valve gear cover (long).			5			88	Valve lifter cable yoke
11	9574	#iti. Dut Ity above			4		"	87	Pin for name
11	4957	Spring for valve, etc., (see valves)			7		**	82	Valve lifter lever with atop pin only 3 4
- 11	24			LU	O		'1	65	Valve lifter lever pawl
- 11	5	Silencer uses and straps only		5	4		"	83	Valve lifter lever pewl spring
•4		Silencer and cap		2	0		8.T.D.		Valva lifter lever pawl stud or bolt
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	5249			8	9		-	36	Stud for mounting bearing of valve lifter lever 4
		Nut for fixing same			7				11
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''	-141	Kicksterter arank ped	ייי ומים שוון אוו			7		HOIN HOI/2 5765 HOINO 5764

	\$.T.D, H.G	3 10 45 39	Richestarter erenk fulcrum p Kickstarter erenk fulcrum p Rickstarter erenk roturn spi Kickstarter erenk vien stad	o DE But D Weaher Dry		ee dis	tribi d. 2 1 a 1	ution in the <i>i</i>	AJS/Mat H.G.L. S.T.D.	Τ9 δ	ss Egroups - do not resell  Gear red bottom portion joint link  Gear red bottom portion joint link yoks end bold  Gear red bottom portion joint link yoks end bold  Not for spouring both portions of red  2	
. :	s.T.D. H.G.	5 12 11 12 10 10 18 14 54 16	Kickstarter crank stop stud Klokstarter crank stop stud Klokstarter ratchet pinion si Kickstarter ratchet pinion si Kickstarter ratchet pinion si Kickstarter ratchet nut Kickstarter ratchet nut felt Kickstarter ratchet gisne nu Kickstarter ratchet gisne nu Kickstarter salchet gisne nu	rubber buf nut wenligz oring Fing nut wenligz wenligz	fer	6 4 1 2	B 2 1 5 4 1 5 5 5 2	í í	J.F. S.T.D. 8B. S.T.D. H.F.F. J.F. H.F. S.T.D	1 116 8 91 14 59	Cycle frame roar portion 5 5 6  S Large bolt for bottom forks 1 4  Nut for same 5  Smaller bolt for top end 5  Nuts for same (each) 5  Steering head race for frame (see also forks) 2 5  Back wheel stend 5  Fixing bolt for same (each) 5  Nut for shore 6	
	H.G. S.T.D.	05 66 4	Gear box strap only Geor box strap cap			B 2	В		J.F.	29	(For stand clip parts see muckguards.) SIDEUAR FRAME AND PARTS	
I	H.O. CT.D	68 14	Gear box strap nut Gear box strap securing pin Gear box strap securing pin x	plit pin			8		s.C. <b>M</b> s.G.	131	Sidecar frame (less fittings) 6-14 C Sidecar frame rear connection concave stud 2-4 Locking nut for same 7 Sidecar rear connection frame ball.	
,	ECTIO	R H	For engine platra, etc., see S  GEAR LEVER QU.						Н Г.Г. Н Г.	46 104	Look nut for same 2 6 Sidecer muit front connection and	
- 1									- 11	105	PRINTER WESTER WAS ARREST	
	r.G.L,	. 2	Top partion gour quedrant (g Balton) portion goss quadran	ada)		4	o o		1.1	UAUB	Sidecar front auxiliary stay complete Sidecar front auxiliary stay with your end and	
r	r.g.L,		Top partion gour quedrant (g Boltom portion goes quadran Gran lever Goar lever ball screen Gest lever ball	sta) . t		4 4 9	-			60 62 61	Sincer front auxiliary stay complete  Sincer front auxiliary stay with your end and look out only  Sidecar front auxiliary stay with your end and look out only  Sidecar front auxiliary stay bare  Serawad yoka and only for same  Look out for above  1	
	7. <b>G</b> .L,	. 2	Top partion gour quedrant (g Boltom portion goes quadran Gran lever Goar lever ball acress Cest lever ball Goar lever spring washer Gear lever spring washer cap Gear lever bush Goar quadrant balt	ste)		4	0 3 3 3 1 6 11		H.F. S.T.D. H.F.	60 62 61 64 2 83	Sidecar front auxiliary stay complete  Sidecar front auxiliary stay with your end and look out only  Sidecar front susdiary stay bare  Sidecar front susdiary stay bare  Serowad yoka and only for same  Look not for above  Sidecar stay eye bolt  Not for same	,
s	7. <b>G</b> .L,	1 2 3 4 5 8 7 8 18 5 14 15	Top partion gour quedrant (g Beltom portion goes quadran Grar lever Goar lever ball acree Gest lever ball Goar lever spring washer cap Gear lever bash Gear lever bash Goar quadrant balt Goar quadrant balt not Gear quadrant tixing stud Grar quadrant fixing stud	ste)		4	0 3 3 3 4 6 4 4		H.F.	60 62 61 64 2 63 1. 61s	Sidecar front auxiliary stay complete  Sidecar front auxiliary stay with your end and look out only  Sidecar front sundings stay bare  Sidecar front sundings stay bare  Serowad yoka and only for same  Look not for above  Sidecar stay eye bolt  Not for same  Sidecar stay yoke and bolts (cach)  Nut for above  Sidecar stay yoke and bolts (cach)  Sidecar froat sundiary stay complete  Sidecar froat sundiary stay with yoke and and	P villa
s	r.g.L,	1 2 3 4 5 8 7 8 18 14 15 23 10 18	Top partion goar quedrant (g Beltom portion goar quadran Grar lever Grar lever ball acree Gear lever ball Goar lever spring washer cap Gear lever spring washer cap Gear lever bush Goar quadrant belt Goar quadrant belt not Gear quadrant fixing stud Grar quadrant fixing stud Gear rod top portion Gear rod top yoke and	sta)		4 4 9 1	0 3 3 1 6 10 9 10 9	•	H.F. S.T.D. H.F. S.T.D. J.F.	60 62 61 64 2 63 61 61 61	Sidecar front auxiliary stay complete  Sidecar front auxiliary stay with your end and look out only  Sidecar front substinct stay bare  Serewad yoka and only for same  Look not for above  Sidecar stay sye bolt  Not for same  Sidecar stay yoke and bolts (cach)  Nut for above  Sidecar stay yoke and bolts (cach)  Nut for above  Sidecar rear substillary stay complete  Sidecar rear substillary stay with yoke and and look out only  Sidecar rear substillary stay bare  Other paris as for front star	P
SEF	T.D.	1 2 3 4 5 5 8 7 8 1B 5 14 15 23 10 18 19 5 11	Top partion goar quedrant (g Beltom portion gose quadran Grar lever Grar lever ball acree Gest lever ball Gost lever spring washer. Gest lever spring washer cap Gest lever bash Gest lever bash Gest lever bash Gest quadrant balt Gost quadrant balt Gost quadrant tixing stud Grar quadrant fixing stud Grar quadrant fixing stud Grar quadrant fixing stud Grar tod top portion Gest rod top yoke end Guar rod top yoke end balt Gest rod top yoke end balt	sta)		4 4 9 1	03 03 1 6 10 10 10 10 10 10 10 10 10 10 10 10 10		H.F. S.T.D. H.F. 8.T.D. J.F.	60 62 61 64 2 63- 1. 61s 61s 61 61	Sidecar front auxiliary stay complete  Sidecar front auxiliary stay with your end and lock out only  Sidecar front succlines stay bare  Serowad yoka and only for same  Lock not for above  Sidecar stay sye bolt  Not for asine  Sidecar stay yoke and bolts (each)  Nut for above  Sidecar stay yoke and bolts (each)  Nut for above  Sidecar star succliary stay complete  Sidecar rear succliary stay with yoke and and lock out only  Sidecar rear succliary stay bare  Other paris as for front stay	V 184
SEF	A.G.L.	1 2 3 4 5 8 7 8 18 5 14 13 20 18 19 5 11 12 20 21	Top partion goar quedrant (g Beltom portion gose quadran Grar lever Goar lever ball acree Gest lever ball Goar lever spring washer cap Gest lever spring washer cap Gest lever bush Goar quadrant balt Goar quadrant balt Goar quadrant tixing stud Grar quadrant fixing stud Grar quadrant fixing stud Grar quadrant fixing stud Grar quadrant fixing stud Grar rod top portion Gear rod top yoke end Goar rod top yoke end balt Goar rod top yoke end balt Goar rod spring box cap Gear rod springs Goar rod springs Goar rod springs Goar rod springs	ste)		4 4 9 1 1 1 1 1 1	0 3 3 3 4 6 10 10 10 10 2 2		H.F. S.T.D. H.F. S.T.D. J.F.	60 62 61 64 2 63 61 61 61 61	Siring wasner for same  Siring the front auxiliary stay complete  Sidecar front auxiliary stay with your end axid  lock out only  Sidecar front susuliary stay bare  Serawad yoka and only for same  Lock not for above  Sidecar stay eye bolt  Not for same  Sidecar stay yoke and bolts (cach)  Nut for above  Sidecar stay yoke and bolts (cach)  Sidecar star auxiliary stay complete  Sidecar tear auxiliary stay with yoke and and  lock out only  Sidecar rear auxiliary stay bare  Other paris as for front stay  Sidecar wheel stand  Bolt for same (such)  Nut for stand bolt  Sidecar body (bare)	ψ. 1.84
S F S H	A.G.L.	1 2 3 4 5 8 7 8 18 5 14 19 20 11 12 20 11 15 5	Top partion goar quedrant (g Beltom portion gose quadran Grar lever Goar lever ball acree Gest lever ball Goar lever spring washer. Gest lever spring washer cap Gest lever spring washer cap Gest lever bash Goar quadrant balt Goar quadrant balt Goar quadrant fixing stud Grar rod top portion Gear rod top yoke end Goar rod top yoke end balt Goar rod top yoke end balt Goar rod spring box cap Gear rod spring box cap Gear rod springs	bie		4 4 9 1 1 1 1 1 1	0303161824600042692		H.F. S.T.D. H.F. S.T.D. J.F.	60 62 61 64 2 61 61 61 61 61 7	Sidecar front auxiliary stay complete  Sidecar front auxiliary stay with your end and look out only  Sidecar front substinct stay bare  Screwed yoks end only for seme  Look not for above  Sidecar stay eye bolt  Not for same  Sidecar stay yoke end bolts (cach)  Nut for above  Sidecar stay yoke end bolts (cach)  Nut for above  Sidecar stay yoke end bolts (cach)  Sidecar tear substiliary stay complete  Sidecar tear substiliary stay with yoke end and look out only  Sidecar rear substiliary stay bare  Other parts as for front stay  Sidecar wheel stand  Bolt for same (sach)  Nut for stand bolt	φ· 1.84,

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H.B D.	. 9	The state of the s	ron iii	CŒC		inputioi	1 111 1110	ILHD	57	Rideren inndu den Leett	. d.
-4	24	Nut for same				2			58	Sidecar body door handle	. a
16	13		•••			,		"		Hood turn outton	5
11	12	Sidnone bulls, facel 1	•••			4			148	Eyelet for hood ourtain	2
	25	Linush Malle for some Lagary	• • • •		8	5		11	144	Press fastence complete	Ĭ.
	24	DU. 6 Nove a brown				2					
S.T.D.	- 3	Silecter body front bearer ber and nut .				1				LUGGAGE CARRIER (CYCLE).	
H.B.D.		Spring washer for same				3		J.F.	А	Laterna province and a	
S.T.D.	10	Plan menhan for some				8		88	75	Fixing holts for frame	) D
	14	Solit on ton war				1	!	H.M	- 7	Bolt for Seine to produce :	4
H.B.D.		a part of state and state				1	•	\$.T.D.	5	Bolt for fixing to mudguera trip Nut for salars Bult for fixing to salars	B
H.F		Sidecar body front spring (each)			5	ត្		П.М.	7	Pull for fair a	2
S.T.D	83	Bolt fer securing (each)				б		S.T.D.	-	A SOUR TON THE REACH BY DO DOWN THE THE PROPERTY OF THE PROPER	3
	4	Ֆան 100 գողարդը (each)				2		G. I . D.	5	Not fer above	2
且. 许.	86	aligning poet titule			1	1		•		<b></b>	
$\mathbf{H}, \mathbf{H}, \mathbf{D},$		Maint Sidecar budy spring			3	3				PROFT FORK.	
	10	Tup lixing bolt for game	,		_	ñ		J, F, F	5	Front fork girder (right side) stanziard 1 16	
8.T.D.	3	But the bolt				9		- 11	- 8		, ,
.,	3	Boltom fixing mit only Sidenar body luggion grid				9			őλ	Front fork girder (light side) standard 1 15 A Front fork girder (right side) for front band	עוו
J.H.D.	16	Sidenar body luggiose grid		1	8	ß				panku Caram ( Aire 2000) Tot troute DRIEG	
FFLHIJD.	25	Top buggage grid fixing link (3.H.)		•	ĭ	di		21	A.	broke	( D
	18	Top luggage grid fixing link (L.H.)			ì	4				prope proge Braze for the total profe	_
	28	Pop luggage grad fixing link fly mat			1	r.		H.F.F.	32		6
*1	1	Luggage grid body stud only (top)	•••	:	ļ.	5			30	Fork agrees half the control of the	11
	2	Linggage grid brdy atud only (htdpom)	•••	:	Ţ	0		• • • • • • • • • • • • • • • • • • • •	31	First errors ball raco	1 2
S.T.D.	Ä	Not for same (inside body)			1	0		1.4	10	Hall race for trame	
H.D.D.	4	Washer for same (inside body)				2		15	419	Complete set of steering head balls  Fork bead clip  Pinch bott for same  Nut for above	3
8.T D.	5	Nut for same (outside)				2		15	42	Port dead this	. 2
	12	Washer for aprea (autoida)				2		S.ŤD.	ş	Must be about	10
B.B.D.	î.	Washer for same (outside)	•••			1			. 8		3
S.T.D.	ווי	Luggage grid space whited straps (coch)	• • •	]	L	1		H.FF.	[0		ıl
S.1 W,	30	Lugginge grid spere wheel fixing but				ย		11	7	Fork head clip sleave (less race)  Fork head clip sleave (race only)	
or in a	10	Wraher for same				)		110	31	Fork head olip sleave (race only)	
H.B.D.	451	with degree on contribute (with degree and all fith)	nes .					J.F.F.	65	THE SPECIAL LOSS PORTOGRAPH AND A TA	
	_	including side wing right side)		4 4		0		- 11	33	FOR spring box only	
	48	-Windecteen econgliste isv≲h doeb but less o	ıid <b>e</b>					H.F.F.	18	FORESPRING DOX DOLLOW CAN	_
		wi <u>ng</u> )		2 10	}	0			27	LONG Spring box top cap	
	141	Side wing with all fittings right side		14	Į.	Ō		P1	20	Fork spring box ulunger and	2
	147	LEST SIDE WHILE I IT FROM THAT WITH ALL SHIPS		14		ō		S.T.D.	2	FORK spring box plunger red nuts (cach)	J.
1	LIΒ	Wing only less fittings		10		ō		H.F.F.	21	Fork spring box plunger rod wasner	13
	42	Wing only less fittings. Top side wing hings left or right with fly not		2	-	Š			25	MOTIFICATION AND CO.	4
	.20	- 15 Hut billy .		-					26	Free angilian angine (Carteria)	Я
	an	Windserven frame and pluss only		17			,	• 1	28	Fork auxiliary spring (fits inside above)	5
	43	Laft side windscreen hings with fly net	• • •			_		**	18	Fock recoil spring	9
	42	Right side windstreen hinge with By mut		- 4		3		S.T.D.		The puring 1934 Dilution min bottom hale	G
	40			4	ب .			H.F.F.	91	Nut for above	à
	63	Witterreen dash and binox	٠.			9			B4	Fork bottom link or rocker (right side) 3	Ď
1	15	Windscreen folding stay	• • •	1 2	- 5	1	¥	11	844	FORK DOUGHD LITTLE OF FOCKET (Officially)	2
· i	45	Windscreen dash after them and		1	- 5			11	66	POPK DODGOD, link or ruskes (right about )	2
	29	Hund remulate with all Assessed		2	- 0			11	222 A	POCK top huk or rocket (left side)	5
	48	Bland back seek (east)		3 18				11-	TAL	Long rocking apindle	2
• •	53	Blood beck rest (cach)		2	- 6	i		1,	86	Short tooking spindle	ĭ
	20	Hood support bracket (each)		4	0	l			15	Left sute spindle locking not	ś
	58 50	Cop nut for game			4	:		S.T.D.	3	Right side mut	3
**	50	Washer for above			2			11	10	Washer for ahove	•
					_						1

H.F.F	14	8-1-11	a	o, á	1.				89			
		Spindle grouse cap			ó				=1	£	٤. ا	a
	44	FOLK HTK OF SPINGIO SIMOVA		4	9		T 47		TANK AND FITTINGS.	~	٠. ١	ш.
8.T.D.	1.4	Fork link or spindle aleeve nuts (each)			9		J.T.	1	Tenk (see all fittings)	8	,	
H F.F		Split put for securing above			1		71	28			4 18	
J.F.F.	35	Head adjusting nut (encircles handleber storn)		2	В		TO 60	18	THE HE LEWIS CHE DISTRICTED TRUST BETWEEN A PROSECULAR	a.	20	×
	00	Fork complete (including stand and mudguerd,					HT.	Ä				2
	96.	etc.) Fork complete (lose stand and mudguard, etc.) From stand only	12	8	6		**	- 6	TRANCOM LOYAR RECOVER DEPARTMENT		0	1
	- Ž	Front stand wales	10	ō	6		**	4	45 ULUDB BDDBB _PUblic remains + new			á
$\mathbf{H}.\mathbf{F}.$	96	From etand only  Bolt for fixing same (sech)	]	Ţ	6		11	- 6	1K11U00 10Ver Summo wheher our mus			ā
S.T.D.	ā	Nut for bolt			4			37	JKNINIEL 2000 IETANANTAI		1	ă
П.М.	15	Stend fixing wing serow			2		1.	ý	2330 00936 <b>FDG</b> (200 0090 rtms);		ī	ā
		aware manufig wing sommy		1	Θ		17	10	A COLOR LOGIC MADE THE PARTY			$\bar{\mathbf{z}}$
		WIDGHARDS IND WEDGE					"	11	As compre reight			9
		MUDGUARDS AND MUDSHIELDS.					*1	12	O INDED SHIPSTON			17
J.M	4	Front madesured only	4	٥.	,,		''	124	CONTROL OF THE PROPERTY OF THE			0
11	3	Back Tabelenwed at La		8 '	Ÿ.		**	13				Q.
	- 9	SIGROBY TRUMPHINES and a	7	4	6			15	A JOHN MULL HART CROLL/DA PATANANIAN AND COMPANIAN COMPA		1	
	а	Front madeused star	1.				''	16	Tank fixing bolts (each)  Tank fixing bolt rubber pad			6
FL.ML	7	Front mudguard stay Front mudguard stay holt (top) Nut for same		٠,	9			17	Tonk fixing helt with part			5
S.T.D.	5				6			25	- A-MIN TOTAL DOING THE DESIGNATION OF THE PERSON OF THE P			2
$\mathbf{H.M.}$	3	From Mudguerd stay bolt (bottom)			4		ST.D.	15	Sami-automatic oil puro: complete	ı	8	Ĝ.
8.T.D.	11	Weather for above			1	_	H.T.	20	Fixing serves for all pump somplets			2
S.C.	82	Weather for above Rear muniguard fixing bull (to rear fank bridges Nut for above			Ř		1177		Regulations agrees agreement and a		1	Ð,
8 T.D.	5			3	2				20 30 17 E.			
$\mathbf{H}.\mathbf{M}_{\cdot}$	77	TAY BE DECOMPOSED IN THE POST OF THE PARTY OF THE WARRANT			-		Η Т.	80	Oil pump plunger knob		2 (	
Dr. Dr. No.	_	Califer .		6	В		1179		TELLIUIO .		. !	됩
S.TD.	5	of the DOT Ropove		-	2		L.T.	18	(3) pump leather cup washer		1	ă
нм	7	DOWN TOURIST STATE Light fits now of biggings							The state of the s		,	9
8.T D.		EMITIGE)		1	9							
	100	THIRD FOR BRUIRS		5	2				STANDS,			
8B.	175	Francia mudgianu stand elin stand		. 4	£		J.F.	14	Back wheel stand only			
*7	178	Bear mudguard stand ellip spring		1	!		HP.	59	Back wheel stand fixing bolt (sach)	1 !	5 L	ū
$\mathbf{s}, \hat{\mathbf{r}}, \mathbf{p}$	171 5			5			8.T.D.	8	PSGN WOOD READD DEED TO LOST A CALLY		F	8
	5	Locking our for above	-	2	2		J. F.	56	Site wheat stand only		. :	3
S.C.M.	ě	Nut for stand clip stud (inside mudguard)		. 2	2		H.F.	98	Side wheel stand fixing bolt nut (each)	- 17	l f	a a
J.F.	59	Fixing bolts for sidecar mudguard		8	1		S.T.D	4	Side wheel stand fixing bolt nut (each)		d	4
S.T.D	10.1	Special washer for above		8	i		J.F.F.		Front whom stand and		2	2
H.M.	15	Nut for bolt		2	:		H.F.	98	Front wheel stand only	- 11	1 6	
	10	A A COMPANY OF THE PROPERTY OF					S.T.D.		- " VOI TO LEGEL SERVICE IN THE PART NAME (AREAL)		- 4	
	А	etand)	1	- 6	:	•	H.M.	15	Front wheel stand fixing bolt nut (each)		2	ı
$S, \widetilde{\mathbf{T}}, \mathbf{D}$ .	IB	Front number plate only (unlettored)	1	2					Side and front stand fixing wing screw	- 1	8 1	1
	24	Front number plate fixing sorew		2								
H.M.	25	Nut for fixing screw Mud-biside roomplete with all fistings)		2					REAR BRANE.			
	22		15				H.H	SB	Brake drute (less sierve)			,
	224	Middhield (right wide) only	5	9		•		47	Brake draw amorphis 4 12 1	l 16	9	
	26	Mudshield mei	5	В			21	53	Brake dram assembled with bearing	2 14	ß	1
S.T.D.	4	Mudshield and and aus (anal)	, i	4				48	Brake drum cover plate (with shoes, sto.)  Brake drum cover plate	18	8	
	11	Madabield and end weehe-		- 2				/18 <sub>A</sub>	1779/ a chace (one point)	В	1 6	1
H.M.	7	Mudahiold fixing holts (cuch)		Ţ					Brake phos everydae	15	- 8	
S.T.D.	5	Mudehield fixing bolt nate (earl)		8				13	Brake shoe expander lever	- 5	9	
				2			S.T.D.	7	Pitera shop arounder and	- 5		
									with and axbender and the		3	

11	52	Brake shoe expander grease cap only			5
- 11	14	Brake lever rull-of apring			Ġ.
	19.	Hadra shoo interest consul			3
	17.	The bearing that the same of the limb			3
	21	Brake drum centre aleeve		a	
	22	Darka Jana - Nam / Janah		8	ΙĮ.
**		Brake drom collers (each)		_	2
1.1	25	Brake drum hearing cap		2	9
71	25	Brake drum centra sleeve nut			Ģ.
- 11	35	7d			3
	4	Brake lever (left gide) Brake lever (left gide) Brake lever (left gide)		7	0
- 11	Ė	Brake lever (left gide)		ż	Ġ
	6	Brake lever (left side) cross head		i	4
S.T.D.	4	Brake lever (left side) cross hend nut		-	2
	ıί	Weeke lames that side is more than 1904			
н.в.		Brake lever (left side) areas head washer	• • • •		•
	3	Brake pedal shaft		4	4
\$.T.D.	9	DIME Deam fumb and dif			Н
H.B.	. 7	Brake pedal shaft sloeve, assembled wi			6
	28	Brake pedal shaft sleeve, assembled wi	t]h		
		Brake pedal shaft alsave gut		8	2
	1	Brake radal shaft alsave out	•	-	Ū
	46	Realra and commission		4	Ö
	10	Broke red compose			
- <del>2</del> 2		Drane rod buly	• • •	8	4
J.B.	. 1	Brake rod complete Brake rod only Brake rod yoke end Brake rod yoke end bolt Brake rod yoke end bolt Brake rod yoke end bolt nut Brake rod tut		1	5
H.B.	11	Brake rod yoke and bult			4
S.T.D.	ь	Brake rod yoke end bolt mut			2
1.	셮	Broke rod nut			2
- T	0.4	- L		_	
11, 15,	24	Direke dirum (less hub mad mil fittings)	1	п	4.1
πħ,	24 20		1	.7	9
11, 15,	20	Firske drum hub (and rivets only)	. 1	17	6
			1		
*1	20	FRORT BRAKE STANDARD.		17	6
н,в,	20 87	FRONT BRAKE STANDARD.  Complete front rim brake	1		Б Б
H.B.	20 87 74	FRORT BRAKE STANDARD.  Complete front rim brake  Front brake pad only		10	6 6 7
H,B,	20 87 76 76	Front BRAKE STANDARD.  Complete front rim brake Front brake pad only  Front brake pad and holder (left side)	1	17 10 3	6 6 7 0
H.B.	20 87 74 76 76	Front brake and holder (left side)  Prout brake pad only  Prout brake pad and holder (left side)  Prout brake pad and holder (right side)		17 10 3 8	6 5 0 0
H,B,	20 87 74 76 76 77	Front brake pad and holder (left side)  Front brake pad only  Front brake pad and holder (left side)  Front brake pad and holder (right side)  Front brake pad and holder (left side)	1	17 10 3	6 5 0 0 0
H,B,	20 87 74 76 76 77 78	Front brake pad and holder (left side).  Front brake pad only  Front brake pad and holder (left side)  Front brake pad and holder (right side)  Front brake pad and holder (right side)  Front brake pad and elip  Front brake pad and elip	1	17 10 3 9	6 5 0 0 0
H,B,	20 87 74 76 76 77 78 79	Front brake pad and holder (left side)  Front brake pad only  Front brake pad and holder (left side)  Front brake pad and holder (right side)  Front brake pad and holder (right side)  Front brake pad and elip  Front brake pad and elip  Front brake pad and	1	17 10 3 8	6 6700060
H.B.	20 87 74 76 76 77 78	Front brake pad and holder (left side)  Front brake pad only  Front brake pad and holder (left side)  Front brake pad and holder (right side)  Front brake pad and holder (right side)  Front brake pad and elip  Front brake pad and elip  Front brake pad and	1	17 10 3 9	6 6700060
H.B.	20 87 76 76 77 78 79	Front brake pad and holder (left side) Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and elip Front brake pad and elip Front brake arch Front brake arch Front brake adjusting rod pinch bolt	1	17 10 3 9	6 67000604
H,B,	20 87 74 76 70 77 78 79 80	Front brake pad and holder (left side) Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and ellip Front brake pad and Front brake arch Front brake arch Front brake adjusting rod punch bolt Front brake adjusting rod punch bolt nut	1	17 10 3 9	6 670006042
H.B.	20 87 76 76 77 78 79 80 81 82	Front brake and holder (left side) Front brake pad only Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and ellip Front brake pad and Front brake arch Front brake arch Front brake adjusting rod punch bolt Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch holt was brake.	1	17 10 3 9	6 6700060421
H,B,	20 87 76 76 77 78 79 80 81 82 88	Front brake and holder (left side) Front brake pad only Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and elip Front brake pad and Front brake arch Front brake arch Front brake adjusting rod pinch bolt Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch holt washer Front brake adjusting rod only	1	17 10 3 9	6 6700060421
H,B,	20 87 76 76 77 78 79 80 81 82 88	Front brake and holder (left side) Front brake pad only Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and elip Front brake arch Front brake arch Front brake arch Front brake adjusting rod pinch bolt Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch holt washer Front brake adjusting rod only	1	17 10 3 3 1 8	6 67000604212
H,B,	20 87 76 76 77 78 79 80 81 82 88 84 85	Front brake and holder (left side) Front brake pad only Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and elip Front brake arch Front brake arch Front brake arch Front brake adjusting rod punch bolt Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch holt washer Front brake adjusting rod only Front brake adjusting rod only Front brake cable and spring box (assemble Front brake cable only (inner and outer)	1	17 10 3 9 1 8	6 67000604212
H.B.	20 87 76 76 77 78 79 80 81 82 88	Front brake and holder (left side) Front brake pad only Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and elip Front brake arch Front brake arch Front brake arch Front brake adjusting rod punch bolt Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch holt washer Front brake adjusting rod only Front brake adjusting rod only Front brake cable and spring box (assemble Front brake cable only (inner and outer)	1	17 10 3 3 1 8	6 67000604212
H.B.	20 87 76 76 77 78 79 80 81 82 88 84 85	Front brake and holder (right side) Front brake pad only Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and holder (right side) Front brake pad and clip Front brake arch Front brake arch Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch holt washer Front brake adjusting rod only Front brake cable and spring box (assemble Front brake cable only (inner and outer) Front brake cable only (inner and outer)	1	17 10 3 3 1 8	6 67000604212080
H.B.	57 74 76 77 78 79 80 81 82 88 84 85 60	Front brake adjusting rod pinch bolt washer Front brake adjusting rod only  Front brake sed only  Front brake pad and holder (right side)  Front brake pad and clip  Front brake pad and clip  Front brake arch  Front brake adjusting rod pinch bolt nut  Front brake adjusting rod pinch bolt washer Front brake adjusting rod pinch bolt washer Front brake adjusting rod pinch bolt washer Front brake adjusting rod only  Front brake adjusting rod only  Front brake adjusting rod only  Front brake cable and spring box (assemble Front brake cable only (inner and outer)  Front brake handlebar lever  Front brake handlebar lever fulcrum bolt	1	17 10 3 3 1 8	6 670006042120806
H.B.	57 74 76 77 78 79 80 81 82 88 84 85 86	Front brake and holder (left side) Front brake pad only Front brake pad only Front brake pad and holder (left side) Front brake pad and holder (right side) Front brake pad and elip Front brake pad and elip Front brake arch Front brake arch Front brake arch Front brake acquisting rod pinch bolt nut Front brake adjusting rod pinch bolt nut Front brake adjusting rod pinch bolt washer Front brake adjusting rod only Front brake cable and spring box (assemble Front brake cable and princh bolt Front brake handlebar lever Front brake handlebar lever fulcrum bolt Front brake handlebar lever fulcrum bolt	1	17 10 3 3 1 8	6 650000004212000000
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