





SERVICE

We maintain at our Head Office properly equipped Spare Parts and Repairs Departments for the convenience of owners of MATCHLESS Motorcycles, in which Departments every attention will be given to the requirements of any MATCHLESS rider who needs even the smallest of Spare Parts or the most trifling adjustment of his machine.

It should be noted that terms of payment for Spare Parts are nett cash with order. Remittances up to £1 in value should be made where possible by Postal Order, but over this amount a cheque is preferable. We can, however, open a deposit account for any customer who will remit to us not less than £2 to remain to his credit in our account. This will then enable us to despatch Spare Parts ordered by phone, telegram, or letter immediately the order is received until the amount deposited is exhausted. Any balance will, of course, always be returned upon request. The C.O.D. System may be employed for orders over 5s. in value.

For further details as to the best methods to be adopted when ordering Spare Parts, or when Repairs are required, reference should be made to the appropriate Instruction Book, which is supplied with every MATCHLESS Motorcycle sold.

NOTICE

We do not appoint agents for the sale on our behalf of our Motorcycles or other goods, but we assign to Motorcycle Dealers areas in which we supply to such Dealers exclusively for re-sale in such areas. No such Dealer is authorised to transact any business, give any warranty, make any representation, or incur any liability on our behalf.

GUARANTEE

We give the following guarantee with our Motorcycles, Motorcycle Combinations and Sidecars, which is given in place of any implied conditions, warranties or liabilities whatsoever, statutory or otherwise, all such implied conditions, warranties and liabilities being in all cases excluded. Any statement, description, condition, or representation contained in any catalogue, advertisement, leaflet, or other publication shall not be construed as enlarging, varying, or overriding this guarantee. In the case of machines which have been used for "hiring out" purposes or racing, or from which the trade mark name or manufacturing number has been removed, no guarantee of any kind is given or is to be implied.

We guarantee, subject to the conditions mentioned below, that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, but this guarantee is to extend and be in force for six months only from the date of purchase, and damages for which we make ourselves responsible under this guarantee are limited to the free supply of a new part in exchange for the part of the motorcycle, motorcycle combination, or sidecar which may have proved defective. We do not undertake to replace or refix, or bear the cost of replacing or refixing, such new part in the motorcycle, motorcycle combination, or sidecar. We undertake, subject to the conditions mentioned below, to make good at any time within six months any defects in these respects. As motorcycles, motorcycle combinations, and sidecars are easily liable to derangement by neglect or misuse, this guarantee does not apply to defects caused by wear and tear, misuse or neglect.

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

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

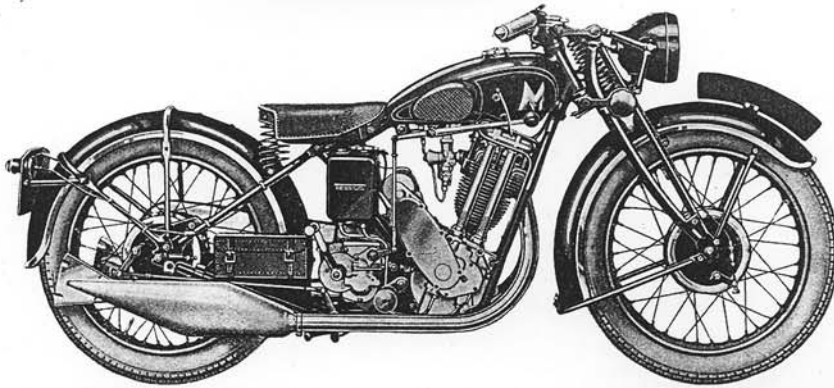
Any motorcycle, or motorcycle combination, or sidecar sent to us to be plated, enamelled, or repaired will be repaired upon the following conditions, i.e., we guarantee that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, such guarantee to extend and be in force from three months only from the time such work shall have been executed or until the expiration of the six months above referred to, and this guarantee is in lieu and in exclusion of any common law or statute, warranty or condition, 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.

CONDITIONS OF GUARANTEE

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

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

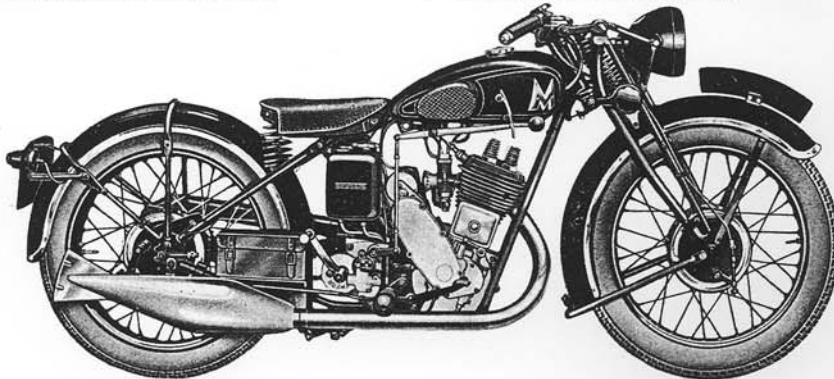
We do not guarantee specialities such as tyres, saddles, chains, lamps, etc., or any component parts supplied to the order of the Purchaser differing from our standard specifications supplied with our motorcycles, motorcycle combinations, sidecars, or otherwise.



MODEL "33/D3" 3.47 H.P. £41.10.0
MODEL "33/D6" 3.47 H.P. £40.10.0

ENGINE. "MATCHLESS" 3.47 h.p. high efficiency O.H.V. Sports. Enclosed roller bearing overhead valve gear mechanically lubricated (including inlet valve guide). **DECOMPRESSOR** to ensure easy starting. Model 33/D3 has two-port cylinder head and Model 33/D6 has single-port cylinder head. Bore 69 m.m. Stroke 93 m.m. Capacity 347 c.c.
LUBRICATION. "MATCHLESS" DRY SUMP system with pressure feed to all working parts and FABRIC OIL FILTER. Cycle parts lubricated by grease gun.
GEARBOX. Pivot-mounted FOUR-SPEED GEARBOX.
GEAR CONTROL. POSITIVE STOP FOOT CONTROL or hand control (as illustrated) at option.
TRANSMISSION. Front chain completely enclosed in OIL BATH CHAIN-CASE. Shock absorber on engine shaft.
IGNITION. By Lucas magneto (Magdyno if electric lighting specified) mounted behind engine and driven by chain enclosed in cast aluminium case integral with timing case cover.
EXHAUST SYSTEM. Two large diameter exhaust pipes terminating in large detachable silencers, all chromium-plated. High competition exhaust pipes with round silencers at option (Model 33/D6—one exhaust pipe only).
STANDS. Spring-up centre prop stand. Separate tubular stand for front wheel.
TANKS. Bulbous saddle tank for petrol; capacity 2 gallons. Separate oil tank under saddle; capacity, 3 pints.
SPRING FORKS. Wide heavyweight forks of compression-spring type, with finger adjustment for shock absorbers.
BRAKES. Entirely new design brakes with cast chromidium brake drums with cooling fins on both wheels. Cover plates with chromium-plated rims to exclude mud and water. Rear brake operated by long pedal on left-hand side of machine. Front brake operated by lever on handlebar.

STEERING DAMPER. Adjustable "MATCHLESS" steering damper incorporated.
MUDGUARDS. Deep-section mudguards with chromium-plated edges. Rear-guard detachable for tyre repairs.
SADDLE. Lycett "Aero" spring seat.
TYRES. 26" x 3.25" "Firestone" Cord.
LUGGAGE CARRIER. Detachable luggage carrier, 15s. extra
HANDLEBARS. Graceful semi-sports handlebars with integral fittings. Black finish.
FINISH. Petrol tank finished in glossy black enamel with gold lines and chromium-plated embossed "M" on each s.d.e. Chromium-plated strip down centre of tank top. Frame, handlebars, etc., stove-enamelled black after special anti-rust process. Mudguards black with chromium-plated moulding round edges, giving exceptionally smart appearance. All usual bright parts chromium-plated.
SPEED. Maximum speed 70 m.p.h.
 Model 33/D3 to standard specification with tools, pump and licence holder **£41 10 0** ZAODS
 Model 33/D3 with Magdyno electric lighting and electric horn **£47 15 0** ZAOFT
 Model 33/D3 "DE LUXE" with Magdyno electric lighting, electric horn, speedometer, oil indicator, ignition switch and illuminated instrument panel above handlebars **£50 0 0** ZAOWM
 Model 33/D6—£1 0s. 0d. less than prices quoted above for Model 33/D3. Add Code Word ZAPAB to Code Word given above for Model 33/D3, if Model 33/D6 required.



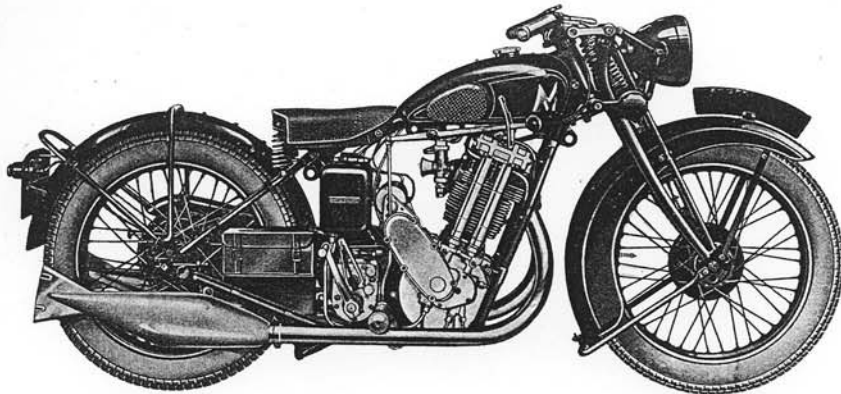
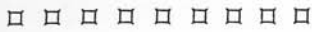
MODEL "33/D5" 4.98 H.P. £38.10.0

ENGINE. "MATCHLESS" 4.98 h.p. high efficiency four-stroke with ENCLOSED VALVES. **DECOMPRESSOR** to ensure easy starting, heavily finned cylinder with latest type semi-turbulent combustion space, aluminium piston. Double row roller bearing big end, two-cam timing gear running in oil bath. Bore 82.5 m.m. Stroke, 93 m.m. Capacity, 498 c.c.
LUBRICATION. "MATCHLESS" DRY SUMP system with pressure feed to all working parts and FABRIC OIL FILTER. Cycle parts lubricated by grease gun.
GEARBOX. Pivot-mounted THREE-SPEED GEARBOX.
GEAR CONTROL. By neat hand gear lever working in quadrant on tank. POSITIVE STOP FOOT CONTROL can be supplied to special order at 12s. 6d. extra.
TRANSMISSION. Front chain completely enclosed in OIL BATH CHAIN-CASE. Rear chain protected by adequate guard. Shock absorber on engine shaft.
IGNITION. By Lucas magneto (Magdyno, if electric lighting specified) mounted behind engine and driven by chain enclosed in cast aluminium case, integral with timing case cover.
EXHAUST SYSTEM. Large diameter exhaust pipe terminating in large detachable silencer, all chromium-plated. High competition exhaust pipe with round silencer can be supplied to special order at 10s. extra.
STANDS. Spring-up centre prop stand. Separate tubular stand for front wheel.
TANKS. Bulbous saddle tank for petrol; capacity, 2 gallons. Separate oil tank under saddle; capacity, 3 pints.
SPRING FORKS. Wide heavyweight forks of compression-spring type, with finger adjustment for shock absorbers.
BRAKES. Entirely new design brakes with cast chromidium brake drums with cooling fins on both wheels. Cover plates

with chromium-plated rims to exclude mud and water. Rear brake operated by pedal on right-hand side of machine. Front brake operated by lever on handlebar.
STEERING DAMPER. Adjustable "MATCHLESS" steering damper incorporated.
MUDGUARDS. deep-section mudguards with chromium-plated edges. Rear guard detachable for tyre repairs.
SADDLE. Lycett "Aero" spring seat.
TYRES. 26" x 3.25" "Firestone" Cord.
LUGGAGE CARRIER. Detachable luggage carrier, 15s. extra.
HANDLEBARS. Graceful semi-sports handlebars with integral fittings. Black finish.
FINISH. Petrol tank finished in glossy black enamel with gold lines and chromium-plated embossed "M" on each side. Chromium-plated strip down centre of tank top. Frame, handlebars, etc., stove-enamelled black after special anti-rust process. Mudguards black with chromium-plated moulding round edges, giving exceptionally smart appearance. All usual bright parts chromium-plated.
 Model 33/D5 to standard specification with tools, pump and licence holder **£38 10 0** ZARAD
 Model 33/D5 with Magdyno electric lighting and electric horn **£44 15 0** ZARDA
 Model 33/D5 "DE LUXE" with Magdyno electric lighting, electric horn, speedometer, oil indicator, ignition switch and illuminated instrument panel above handlebars **£47 0 0** ZAREF

Sold subject to Guarantee on back cover. Delivery free to Dealer's premises anywhere in Great Britain.

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MODEL "33/CS" 4.95 H.P. £49.10.0

ENGINE. "MATCHLESS" 4.95 h.p. O.H.V. two-port. Roller bearing overhead valve gear mechanically lubricated from engine (including inlet valve guide). **DECOMPRESSOR** to ensure easy starting. Bore 85.5 m.m. Stroke 85.5 m.m. Capacity 495 c.c.

LUBRICATION. "MATCHLESS" DRY SUMP system with pressure feed to all working parts and FABRIC OIL FILTER. Cycle parts lubricated by grease gun.

GEARBOX. Pivot-mounted FOUR-SPEED GEARBOX with clutch and kickstarter.

GEAR CONTROL. POSITIVE STOP FOOT CONTROL or hand control (as illustrated) at option.

TRANSMISSION. Front chain completely enclosed in OIL BATH CHAIN CASE. Rear chain protected by adequate guard. Shock absorber on engine shaft.

EXHAUST SYSTEM. Two large diameter exhaust pipes terminating in large detachable silencers, all chromium-plated. High competition exhaust pipes with round silencers at option.

STANDS. Spring-up centre prop stand. Separate tubular stand for front wheel.

TANKS. Bulbous saddle tank for petrol; capacity 2½ gallons. Separate oil tank under saddle; capacity 4 pints.

FRAME. Unbreakable duplex cradle frame of great strength.

SPRING FORKS. Wide heavyweight forks of compression-spring type, with finger adjustment for shock absorbers.

WHEELS. With all-steel hubs mounted on taper roller bearings. Rear wheel quickly detachable.

BRAKES. Internal expanding on both wheels with cover plates to exclude mud and water. Finger adjustment.

STEERING DAMPER. Adjustable "MATCHLESS" steering damper incorporated.

MUDGUARDS. "D" section. Rear guard detachable for tyre repairs.

SADDLE. Large Lycett "Aero" spring seat.

TYRES. 26" x 3.25" "Firestone" Cord. 27" x 4" optional at extra charge.

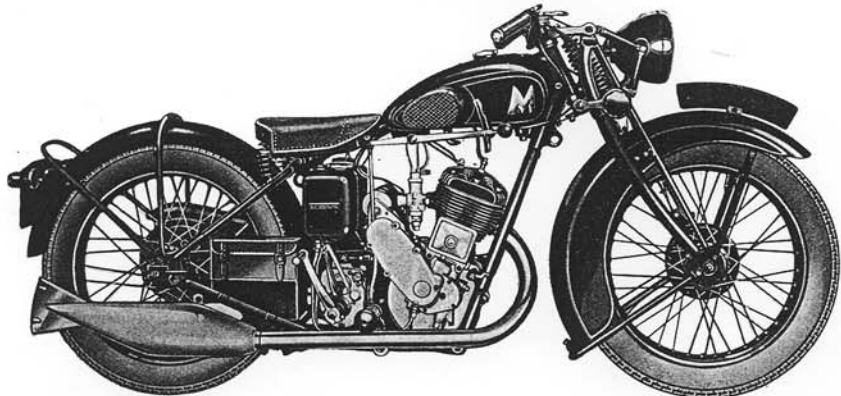
LUGGAGE CARRIER. Detachable luggage carrier 15s. extra.

HANDLEBARS. Graceful semi-sports handlebars with integral fittings. Black finish.

FINISH. Petrol tank finished in glossy black enamel with gold lines and chromium-plated embossed "M" on each side. Chromium-plated strip down centre of tank top. Frame, handlebars, etc., stove-enamelled black after special anti-rust process. All usual bright parts chromium-plated.

SPEED. Approximately 75 m.p.h.

	PRICE	CODE WORD
Model 33/CS to standard specification with tools, pump and licence holder	£49 10 0	ZASAF
Model 33/CS with Lucas Magdyno electric lighting and electric horn	£55 15 0	ZASEG
Model 33/CS "DE LUXE" with Magdyno electric lighting, electric horn, speedometer, oil indicator, ignition switch and illuminated instrument panel above handlebars	£58 10 0	ZASFA



MODEL "33/C" 5.86 H.P. £47.10.0

ENGINE. "MATCHLESS" 5.86 h.p. side-valve with Car-type detachable cylinder head and enclosed valves. **DECOMPRESSOR** to ensure easy starting. Bore 85.5 m.m. Stroke 101.6 m.m. Capacity 586 c.c.

LUBRICATION. "MATCHLESS" DRY SUMP system with pressure feed to all working parts and FABRIC OIL FILTER. Cycle parts lubricated by grease gun.

GEARBOX. Pivot-mounted FOUR-SPEED GEARBOX with clutch and kickstarter.

TRANSMISSION. Front chain completely enclosed in OIL BATH CHAIN CASE. Rear chain protected by adequate guard. Shock absorber on engine shaft.

EXHAUST SYSTEM. Large diameter exhaust pipe terminating in large detachable silencer, all chromium-plated.

STANDS. Spring-up centre prop stand. Separate tubular stand for front wheel.

TANKS. Bulbous saddle tank for petrol; capacity 2½ gallons. Separate oil tank under saddle; capacity 4 pints.

FRAME. Unbreakable duplex cradle frame of great strength.

SPRING FORKS. Wide heavyweight forks of compression-spring type, with finger adjustment for shock absorbers.

WHEELS. With all-steel hubs mounted on taper roller bearings. Rear wheel quickly detachable.

BRAKES. Internal expanding on both wheels with cover plates to exclude mud and water. Finger adjustment.

STEERING DAMPER. Adjustable "Matchless" steering damper incorporated.

MUDGUARDS. "D" section. Rear guard detachable for tyre repairs.

SADDLE. Large Lycett "Aero" spring seat.

TYRES. 26" x 3.25" "Firestone" Cord. 27" x 4" optional at extra charge.

LUGGAGE CARRIER. Detachable luggage carrier—15s. extra.

HANDLEBARS. Graceful semi-sports handlebars with integral fittings. Black finish.

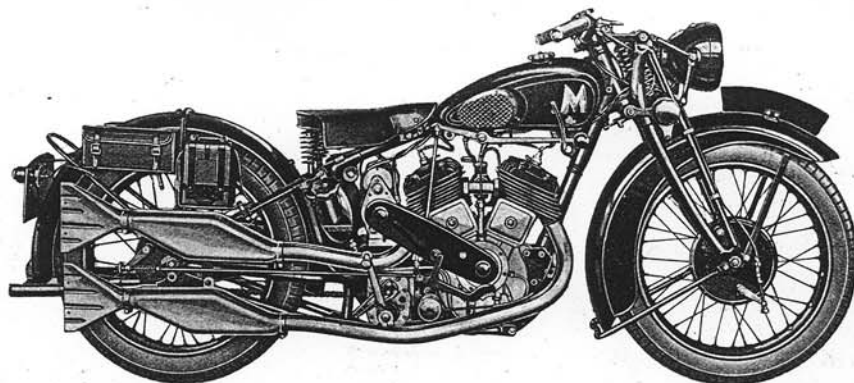
FINISH. Petrol tank finished in glossy black enamel with gold lines and chromium-plated embossed "M" on each side. Chromium-plated strip down centre of tank top. Frame, handlebars, etc., stove-enamelled black after special anti-rust process. All usual bright parts chromium-plated.

	PRICE	CODE WORD
Model 33/C to standard specification with tools, pump and licence holder	£47 10 0	ZATAG
Model 33/C with Lucas Magdyno electric lighting and electric horn	£53 15 0	ZATGA
Model 33/C "DE LUXE" with Magdyno electric lighting, electric horn, speedometer, oil indicator, ignition switch and illuminated instrument panel above handlebars	£56 10 0	ZATHE

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Delivery free to Dealer's premises anywhere in Great Britain.





MODEL "33/X3" 9.9 H.P. £60.0.0

ENGINE. "MATCHLESS" 9.9 h.p. 50 deg. "V" twin engine with car-type DETACHABLE CYLINDER HEADS and ENCLOSED VALVES. Bore, 85.5 m.m. Stroke, 85.5 m.m. Capacity, 990 c.c.

LUBRICATION. "MATCHLESS" DRY SUMP system with pressure feed to all working parts and FABRIC OIL FILTER. Cycle parts lubricated by grease gun.

GEARBOX. FOUR-SPEED GEARBOX with dry-plate clutch and kickstarter. Top gear: Model 33/X3—4.3 to 1. Model 33/XR3—3.8 to 1, unless specially ordered otherwise.

EXHAUST SYSTEM. Two large diameter pipes terminating in large detachable silencers with detachable fish-tails, all chromium-plated.

STANDS. Spring-up stand to rear wheel. Strong stand to front wheel.

TANKS. Bulbous saddle tank for petrol; capacity, 2½ gallons. Separate oil tank under saddle; capacity, 4 pints.

FRAME. "MATCHLESS" trussed loop frame with duplex torque stays.

FORKS. Extra heavy "MATCHLESS" with adjustable shock absorbers.

BRAKES. 8" internal expanding brakes on both wheels with special INTER-CONNECTING GEAR so arranged that pedal applies both brakes. Hand lever controls front brake only. Finger adjustment to all controls.

MUDGUARDS. "D" section. Rear guard detachable for tyre repairs.

SADDLE. Large Lycett "Aero" spring seat.

TYRES. 26" x 3.25" "Firestone" Cord, 27" x 4" optional at extra charge.

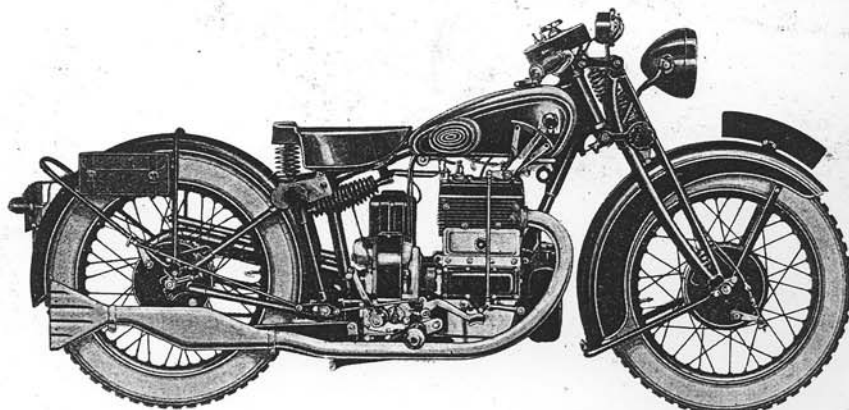
HANDLEBARS. New design "clean" handlebars with integral fittings. Black finish.

LUGGAGE CARRIER. Detachable luggage carrier—15s. extra.

STEERING DAMPER. Adjustable "MATCHLESS" steering damper provided.

FINISH. Petrol tank finished in glossy black enamel with gold lines and chromium-plated embossed "M" on each side. Chromium-plated strip down centre of tank top. Frame, handlebars, etc., stove-enamelled black after special anti-rust process. All usual bright parts chromium-plated. On Model 33/XR3 wheels are also chromium-plated and cylinders are nickel-plated.

	PRICE	CODE WORD
Model 33/X3 to standard specification with tools, pump and licence holder ...	£60 0 0	ZAUCS
Model 33/X3 with Lucas Magdyno electric lighting and electric horn ...	£66 5 0	ZAUDT
Model 33/X3 "DE LUXE" with Magdyno electric lighting, electric horn, speedometer, air filter, oil indicator, and illuminated instrument panel mounted above handlebars, and twist-grip throttle ...	£69 0 0	ZAURJ
Model 33/XR3—£2 10s. 0d. extra to above prices. Add Code Word YAEGY to Code Word given above for Model 33/X3 if Model 33/XR3 required.		



MODEL "33/A2" "SILVER ARROW" £55.0.0

ENGINE. "MATCHLESS" vibrationless MONOBLOC TWIN-CYLINDER side-valve four-stroke engine. Cylinders cast in one block, single piece car-type detachable cylinder head, enclosed valves, car-type camshaft, remarkable silence, absolutely vibrationless running, exceptionally easy starting. Bore, 64 m.m. Stroke, 86 m.m. Capacity, 400 c.c.

LUBRICATION. DRY-SUMP system, incorporating FABRIC OIL FILTER. Cycle parts lubricated by grease gun.

IGNITION. Magneto driven direct from camshaft through flexible coupling.

GEARBOX. FOUR-SPEED GEARBOX with dry plate clutch and kickstarter.

FRAME. "MATCHLESS" patent SPRING FRAME, providing complete insulation from road shocks. Main pivot fitted with indestructible "silentbloc" rubber bearings. No wearing parts. Adjustable shock absorbers.

TANKS. New design bulbous saddle tank for petrol; capacity, 2½ gallons. Separate oil tank; capacity, 4 pints.

SPRING FORKS. Heavyweight "MATCHLESS" with adjustable shock absorber.

STEERING DAMPER. Adjustable "MATCHLESS" steering damper provided.

STANDS. Spring-up centre prop stand. Separate stand to front wheel.

BRAKES. 8" internal expanding brakes on both wheels with special INTER-CONNECTING GEAR so arranged that pedal applies both brakes. Hand lever controls front brake only. Finger adjustment to all controls.

MUDGUARDS. "D" section. Rear guard detachable for tyre repairs.

SADDLE. Large Lycett "Aero" spring seat with roll back.

TYRES. 26" x 3.25" "Firestone" Cord, 27" x 4" optional at extra charge.

HANDLEBARS. New design "clean" handlebars with integral fittings. Black finish.

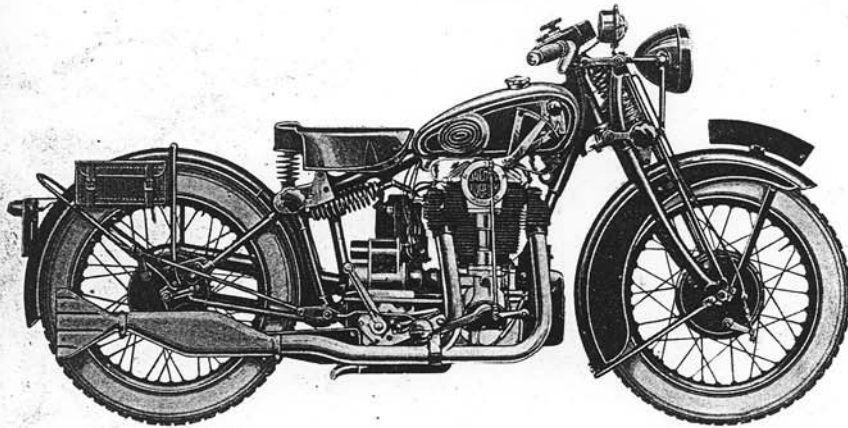
LUGGAGE CARRIER. Detachable luggage carrier—15s. extra.

FINISH. Petrol tank chromium-plated with black side panels with gold lines and chromium-plated "M" on each side. All bright parts heavily chromium-plated. Frame, mudguards, handlebars, etc., stove-enamelled black. Rustless black gun finish for all small parts not enamelled or chromium-plated.

	PRICE	CODE WORD
Model 33/A2 ("SILVER ARROW") to standard specification with tools, pump and licence holder ...	£55 0 0	ZAVAH
Model 33/A2 with Lucas Magdyno electric lighting and electric horn ...	£61 5 0	ZAVHA
Model 33/A2 "DE LUXE" with air filter, electric lighting, speedometer, electric horn, oil indicator and illuminated instrument panel mounted above handlebars, and twist-grip throttle ...	£64 0 0	ZAVIK

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Delivery free to Dealer's premises anywhere in Great Britain.



MODEL "33/B" "SILVER HAWK" £72.0.0

ENGINE. "MATCHLESS" MONOBLOC FOUR-CYLINDER overhead camshaft engine. Two-throw crankshaft. Detachable cylinder head. Absolutely vibrationless and exceptionally silent. Bore 50.8 m.m. Stroke, 73 m.m. Capacity, 593 c.c.

LUBRICATION. DRY SUMP system, incorporating FABRIC OIL FILTER. Cycle parts lubricated by grease gun.

IGNITION. Lucas dynamo-coil ignition and lighting unit, shaft driven.

EXHAUST SYSTEM. Cast exhaust manifolds front and rear of cylinder head, with two large diameter exhaust pipes merging into one pipe with detachable silencer and fish-tail, all chromium-plated.

GEARBOX. FOUR-SPEED GEARBOX, plate clutch and kickstarter.

TRANSMISSION. Duplex roller chain from engine to gearbox in oil bath chain-case with AUTOMATIC TENSIONING DEVICES. Rear chain adequately protected.

FRAME. "MATCHLESS" PATENT STRONG FRAME providing complete insulation from road shocks. Main pivot fitted with indestructible "Silentbloc" rubber bearings. No wearing parts. Adjustable shock absorbers.

TANKS. Saddle tank for petrol; capacity, 2½ gallons. Separate oil tank; capacity, 4 pints.

SPRING FORKS. Extra heavy, with instantly adjustable shock absorbers.

STEERING DAMPER. Included in specification.

TYRES. 26" x 3.25" "Firestone" Cord. 27" x 4" optional at extra charge.

BRAKES. 8-inch internal expanding brakes on both wheels with special INTER-CONNECTING GEAR so arranged that pedal applies both brakes. Hand lever controls front brake only. Finger adjustment to all controls.

SADDLE. Large Lycett "Aero" spring seat with roll back.

STANDS. Spring-up centre prop stand. Separate stand to front wheel.

MUDGUARDS. "D" section. Rear guard detachable for tyre repairs.

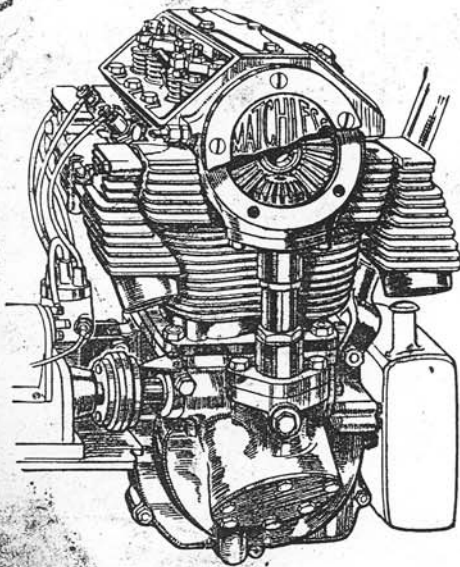
HANDLEBARS. New design "clean" handlebars with integral fittings. Black finish.

LUGGAGE CARRIER. Detachable luggage carrier, 15s. extra.

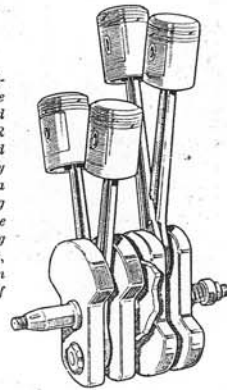
FINISH. Petrol tank chromium-plated with black side panels with gold lines and chromium-plated "M" on each side. All bright parts heavily chromium-plated. Frame, mudguards, handlebars, etc., stove-enamelled black. Rustless black gun finish for all small parts not enamelled or chromium-plated.

EQUIPMENT. This machine is supplied only with complete "DE LUXE" equipment, including electric lighting, electric horn, speedometer, air filter, illuminated instrument panel and twist-grip throttle.

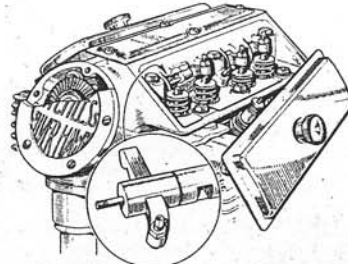
PRICE. CODE WORD.
Model 33/B ("SILVER HAWK")
with complete "DE LUXE"
equipment £72 0 0 YAFIX



The overhead camshaft four-cylinder engine of the "SILVER HAWK" is remarkably sturdy in design. The four cylinders are cast in one block, while large bevel gears drive the camshaft. Note the car-type shaft drive employed for the dynamo-ignition unit and the heavily finned exhaust branches.



This sketch gives a semi-diagrammatic view of the crankshaft and connecting rod arrangement on the "SILVER HAWK." The sturdy balanced crankshaft is supported by three bearings. There is a long phosphor-bronze bearing at each end, while in the middle is a roller bearing supported by a steel plate, which is shown cut away in the sketch, for the sake of clearness.



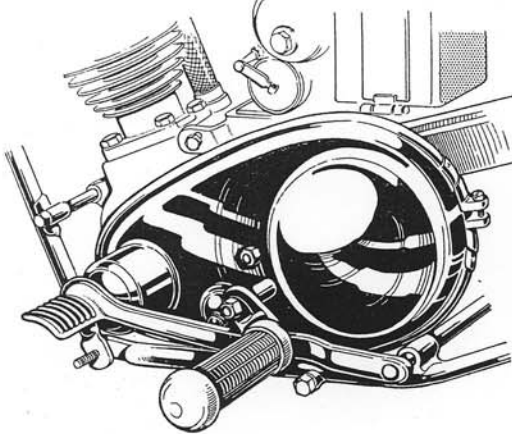
The ingenious and simple valve gear on the four cylinder engine. Each rocker has a "floating fulcrum," and these are positioned by a long bolt running across the cam-box. All the valve gear is totally enclosed.

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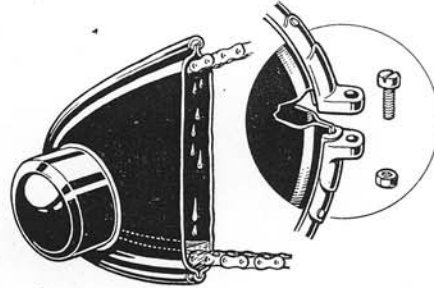
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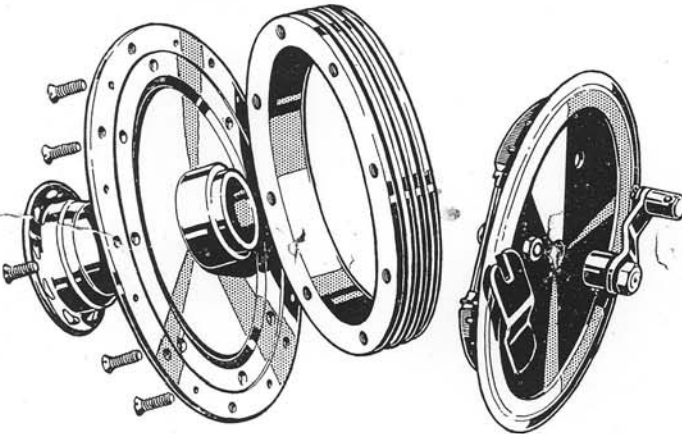
SOME "MATCHLESS" FEATURES



This illustration shows the handsome oilbath chain case fitted on most of the 1933 "Matchless" Models, while also visible is the 13-inch brake pedal which applies the rear brake on the Models "33/D2," "33/D3," "33/D6" and "33/D5" machines.

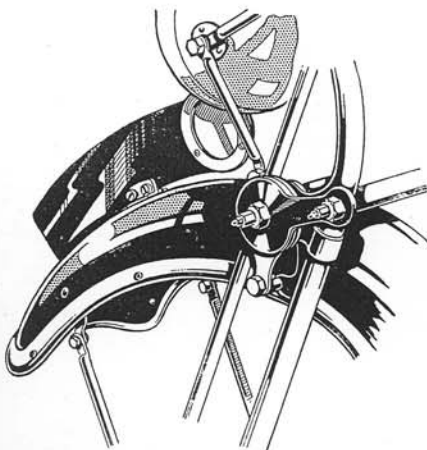


The construction of the new "Matchless" oilbath chain case is exceptionally simple, as will be seen from this sectional sketch. The front and back halves of the chain case are made from steel pressings, which are held together by a moulded rubber band with a metal clamp which extends round the chain case and is tightened up by a nut and bolt at the rear. Notice that the chain actually runs in oil, thus ensuring an entire absence of wear and remarkable silence and smoothness in operation.

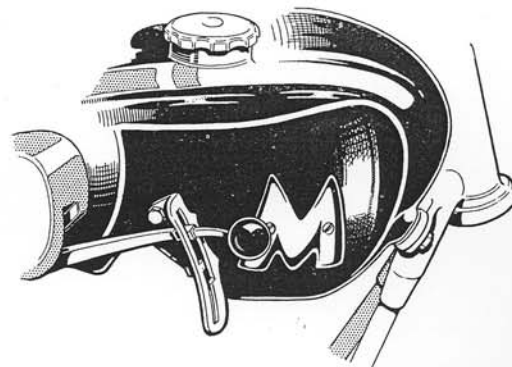


This sketch shows the new brakes used on the Model "33/D2," "33/D3," "33/D6," and "33/D5" machines, dismantled to show their construction. A large flange is formed in one with the hub, to which flange the brake drum proper is fastened by eight bolts. This brake drum is made of centrifugally cast chromidium iron alloy, which material has a high co-efficient of friction and provides an ideal braking surface. The brake drum is stiffened by deep fins, which also serve to ensure adequate cooling when the brakes are applied for considerable distances in mountainous country. The cover plate seen on the right, on which the brake shoes themselves are mounted, is designed to prevent entirely the ingress of water or dirt to the brakes, while a handsome appearance is given by its chromium-plated rim.

The 1933 "Matchless" handlebars have integral controls as shown in this illustration. Note the twist grip for the throttle, the convenient button for the electric horn and the ring type dimming switch for the headlamp. The handlebars are adjustable for angle and are finished in highly polished black enamel.



An outstanding feature on some of the 1933 "Matchless" Models is the use of chromium-plated edges on the mudguards, as shown in this illustration. These chromium-plated edges are actually formed of brass mouldings which are rolled over the edge of the mudguards and rivetted in position. They cannot rust, prevent the enamel cracking on the edges of the mudguards, and give an extremely handsome appearance. Note also the shock absorber on the spring fork and the grease nipples provided for lubrication of the spring fork spindles.



The new Tank finish used on the 1933 "Matchless" machines is exceptionally handsome, consisting of highly polished stoved black enamel, which is almost everlasting in wear, and which is decorated with gold lines and an embossed chromium "M," held in position by two screws. The contrast of the Chromium "M" with the glossy black and gold lines, is most effective. Note also the mounting of the Tank, with rubber buffers to absorb vibration.



