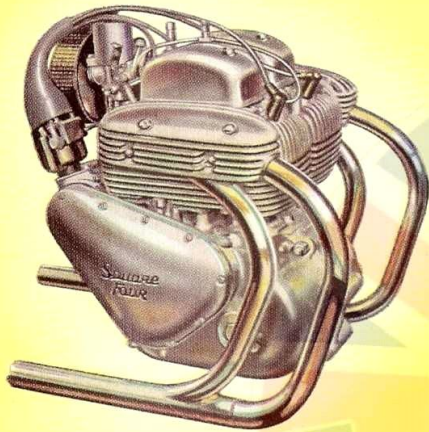


Catalogue Ariel 1955 en anglais (deuxième version)



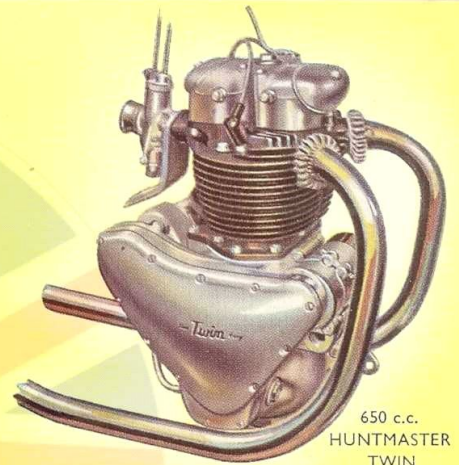


1000 c.c. SQUARE FOUR

ARIEL

The modern motorcycle

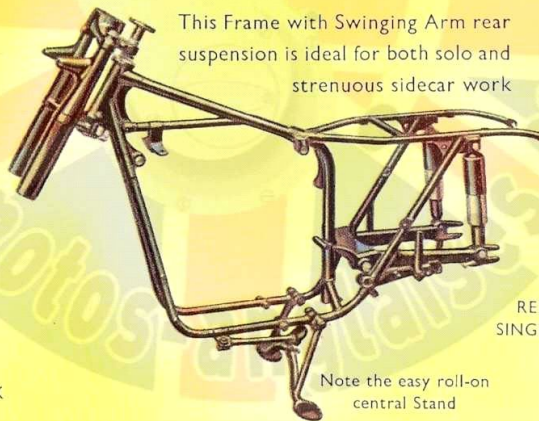
We proudly claim to be the only
manufacturer in the World offering
Four, Twin and Single Cylinder
Motor Cycles



650 c.c.
HUNTMASTER
TWIN

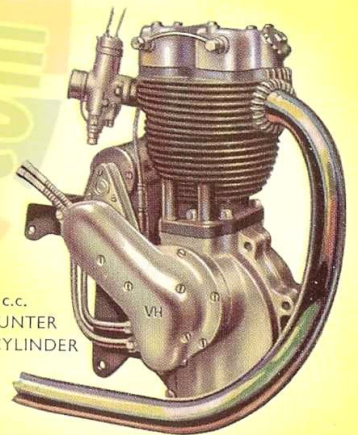


THIEF-PROOF
STEERING LOCK



This Frame with Swinging Arm rear
suspension is ideal for both solo and
strenuous sidecar work

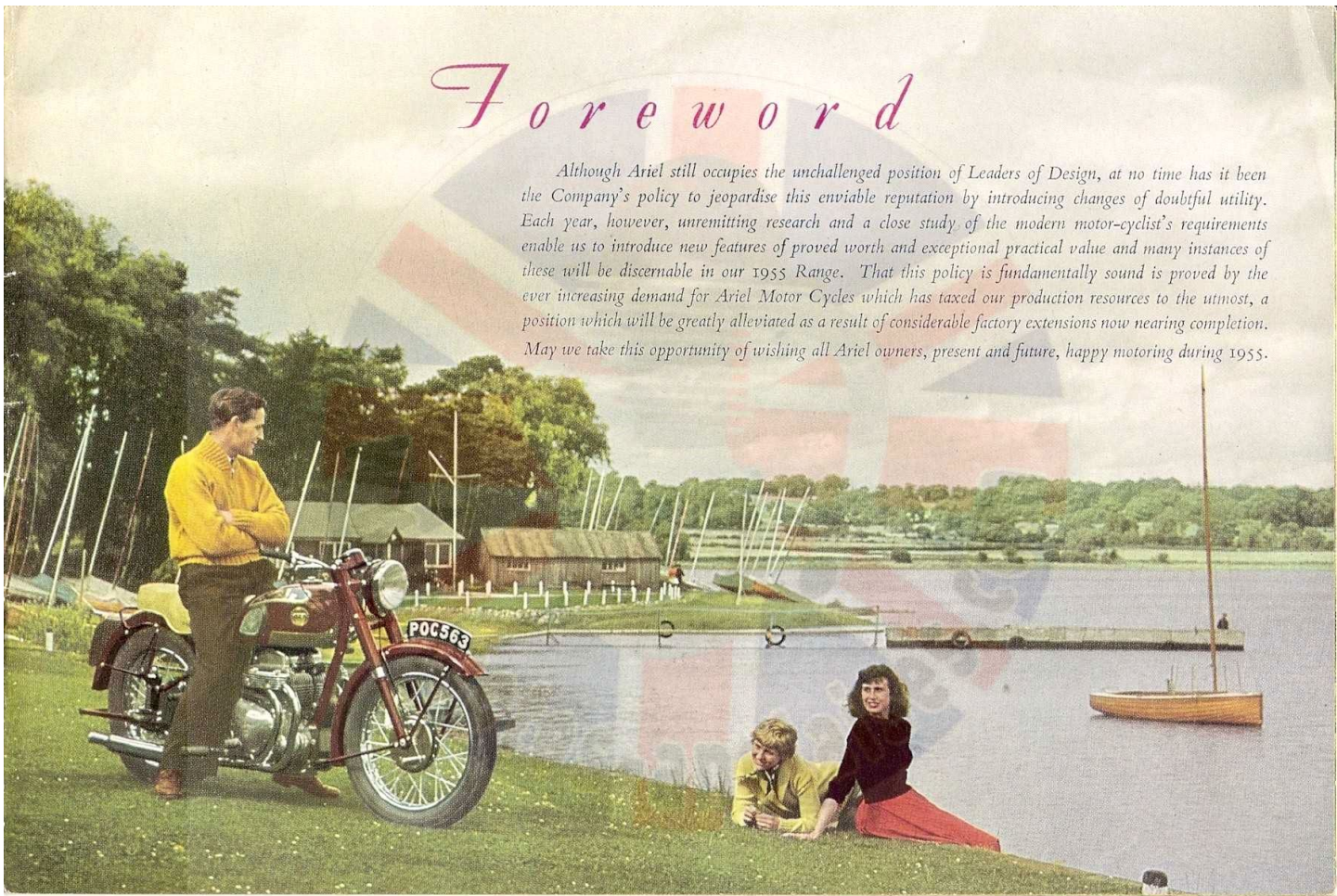
Note the easy roll-on
central Stand



500 c.c.
RED HUNTER
SINGLE CYLINDER

Foreword

Although Ariel still occupies the unchallenged position of Leaders of Design, at no time has it been the Company's policy to jeopardise this enviable reputation by introducing changes of doubtful utility. Each year, however, unremitting research and a close study of the modern motor-cyclist's requirements enable us to introduce new features of proved worth and exceptional practical value and many instances of these will be discernable in our 1955 Range. That this policy is fundamentally sound is proved by the ever increasing demand for Ariel Motor Cycles which has taxed our production resources to the utmost, a position which will be greatly alleviated as a result of considerable factory extensions now nearing completion. May we take this opportunity of wishing all Ariel owners, present and future, happy motoring during 1955.



Model 4G

1000 c.c. SQUARE FOUR

Engine: Four cylinder O.H.V. 65×75 mm.—997 c.c. ($2.56 \times 2.95 = 60.8$ cubic inches). Aluminium alloy cylinder with wear resisting detachable sleeves. Aluminium alloy cylinder head with valve seat inserts. Twin counterbalanced alloy steel crankshafts coupled by hardened and ground gears. Light alloy connecting rods with white metal liners. S.U. variable choke carburettor with air cleaner. Double gear oil pump. Lucas coil ignition, incorporating 70 watt voltage controlled dynamo with built-in distributor and automatic ignition control. 6 volt 20 amp. hour battery.

Frame: Full cradle type. Lugs for sidecar attachment either side. Ariel patented plunger rear suspension. Thief-proof steering lock. Stands: forged steel girder spring-up rear and strong tubular front, also prop stand.

Forks: Ariel design. Telescopic with hydraulic control. Large bearing surfaces automatically lubricated. $6\frac{1}{2}$ in. total travel. Steering damper incorporated.

Gearbox: Four-speed, foot control. Three-plate dry clutch.

Transmission: Engine shaft shock absorber. Polished aluminium oil bath primary chain case with separate oil-free compartment for clutch. Rear chain fully protected and lubricated.

Mudguards: Wide D section with tubular stays. Rear guard can be lifted for easy wheel removal.

Brakes: Ariel design of great power, 8 in. diameter rear, 7 in. diameter front. Car type fulcrum adjustment.

Seating: Improved Ariel design dual seat with pillion footrests.

Handlebar Controls: Adjustable. Twist grip for throttle. Clutch control lever. Front brake control lever. Headlamp dipper switch and horn push button.

Petrol Tank: Rubber insulated, incorporating quick release cam-operated filler cap. Attractive chromium plated flutes. Rubber knee pads.

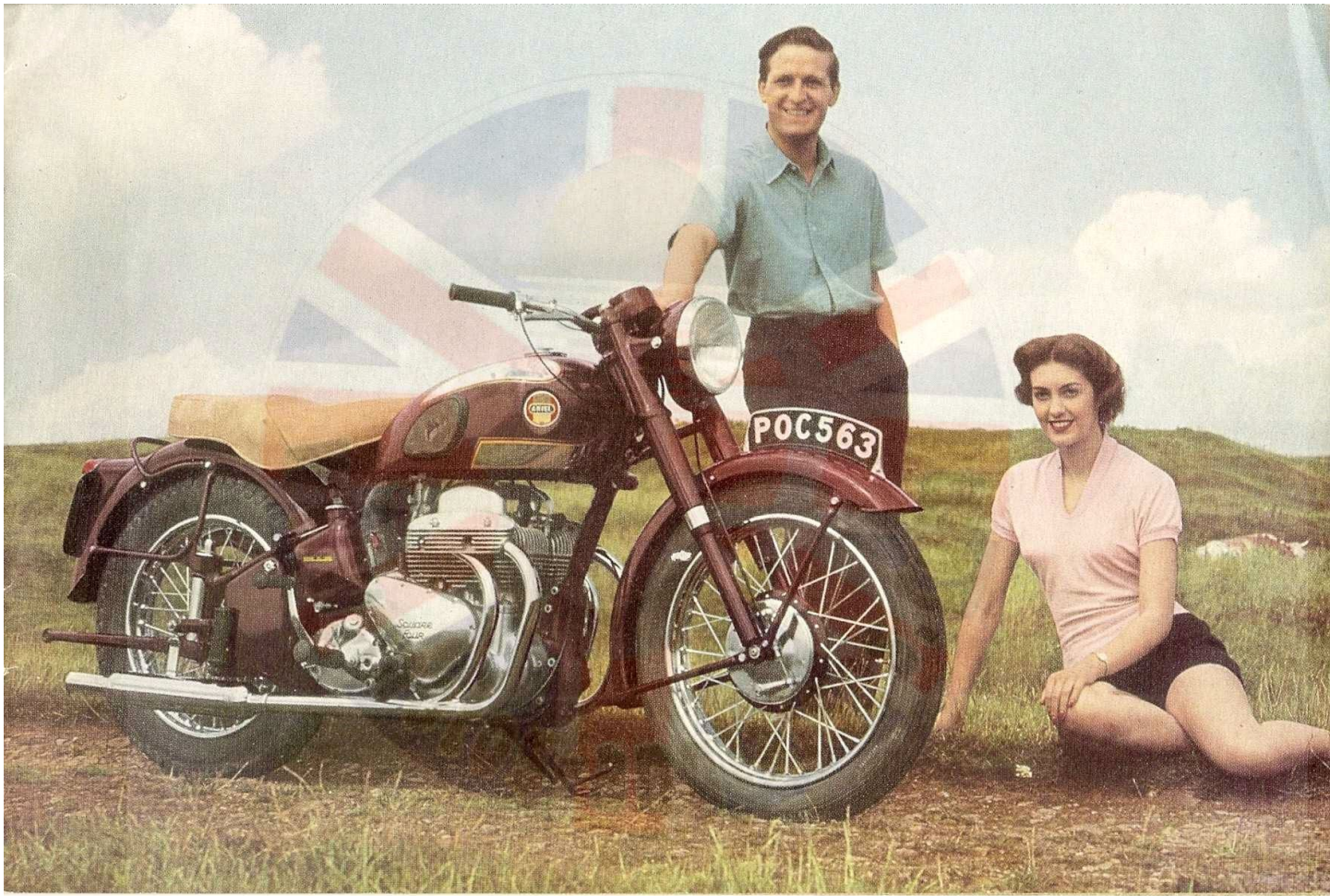
Speedometer: 120 m.p.h. (180 km.p.h.).

Lighting: $7\frac{1}{2}$ in. headlamp incorporating lighting switch and ammeter. 6 volt battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in best quality Deep Claret enamel.





Model FH 650_{c.c.} HUNTMaster TWIN

Engine: Vertical O.H.V. 70×84 mm.=646 c.c. (2.76 × 3.30=39.3 cubic inches). Cast iron twin cylinders and heads. Vachrome top piston rings. Forged steel crankshaft with counterbalanced weights, carried on a large roller bearing on drive side, white metal lined bearing on timing side. Light alloy connecting rods with lead-bronze liners. Gear driven camshaft operates O.H.V. rockers by means of tappets and push rods. Mechanical crankcase breather. Amal Monobloc carburettor with air cleaner. Double gear oil pump. Lucas magneto with automatic ignition control.

Frame: Duplex cradle type, fully triangulated, ensuring great strength and rigidity. Lugs for sidecar attachment either side. Thief-proof steering lock. Swinging arm rear suspension with hydraulic damping. 3½ in. wheel movement. All pivot points rubber bushed. Stands: easy-lift spring-up central and strong tubular front, also prop stand.

Forks: Ariel design. Telescopic with hydraulic control. Large bearing surfaces automatically lubricated. 6¼ in. total travel. Steering damper incorporated.

Gearbox: Four-speed, foot control. Three-plate dry clutch.

Transmission: Engine shaft shock absorber. Polished aluminium oil bath primary chain case with separate oil-free compartment for clutch. Rear chain fully protected and lubricated.

Mudguards: Wide D section with tubular stays. Back end of rear guard detachable for easy wheel removal.

Brakes: Ariel design of great power, 7 in. diameter front and rear. Car type fulcrum adjustment.

Seating: Improved Ariel design dual seat with pillion footrests.

Handlebar Controls: Adjustable. Twist grip for throttle. Clutch control lever. Front brake control lever. Headlamp dipper switch and horn push button.

Petrol Tank: Rubber insulated, incorporating quick release cam-operated filler cap. Attractive chromium plated flutes. Rubber knee pads.

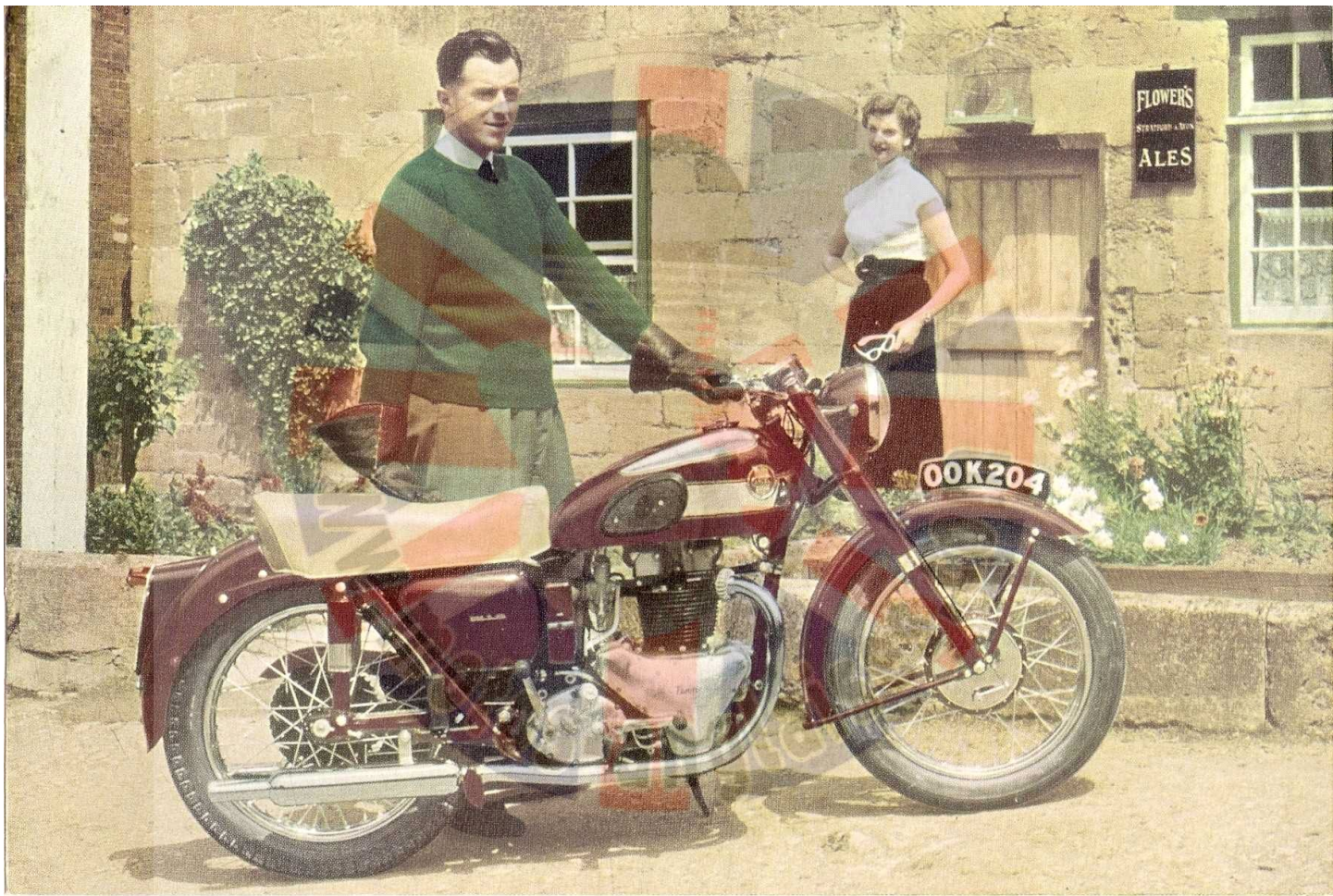
Speedometer: 120 m.p.h. (180 km.p.h.).

Lighting: 7½ in. headlamp incorporating lighting switch and ammeter. 56 watt voltage controlled dynamo. 6 volt battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in best quality Deep Claret enamel.







Model KH 500 c.c. HUNTER TWIN

Engine: Vertical O.H.V. 63×80 mm. = 498 c.c. ($2.48 \times 3.15 = 30.4$ cubic inches). Cast iron twin cylinders and polished aluminium alloy cylinder heads with valve seat inserts. Vachrome top piston rings. Forged steel crankshaft with counterbalanced weights, carried on a large roller bearing on drive side, white metal lined bearing on timing side. Light alloy connecting rods with white metal liners. Twin camshafts driven by adjustable Duplex roller chain. Amal Monobloc carburettor with air cleaner. Double gear oil pump. Lucas magneto with automatic ignition control.

Frame: Duplex cradle type, fully triangulated, ensuring great strength and rigidity. Lugs for sidecar attachment either side. Thief-proof steering lock. Swinging arm rear suspension with hydraulic damping. $3\frac{1}{2}$ in. wheel movement. All pivot points rubber bushed. Stands: easy-lift spring-up central and strong tubular front, also prop stand.

Forks: Ariel design. Telescopic with hydraulic control. Large bearing surfaces automatically lubricated. $6\frac{1}{2}$ in. total travel. Steering damper incorporated.

Gearbox: Four-speed, foot control. Three-plate dry clutch.

Transmission: Engine shaft shock absorber. Polished aluminium oil bath primary chain case with separate oil-free compartment for clutch. Rear chain fully protected and lubricated.

Mudguards: Wide D section with tubular stays. Back end of rear guard detachable for easy wheel removal.

Brakes: Ariel design of great power, 7 in. diameter front and rear. Car type fulcrum adjustment.

Seating: Improved Ariel design dual seat with pillion footrests.

Handlebar Controls: Adjustable. Twist grip for throttle. Clutch control lever. Front brake control lever. Headlamp dipper switch and horn push button.

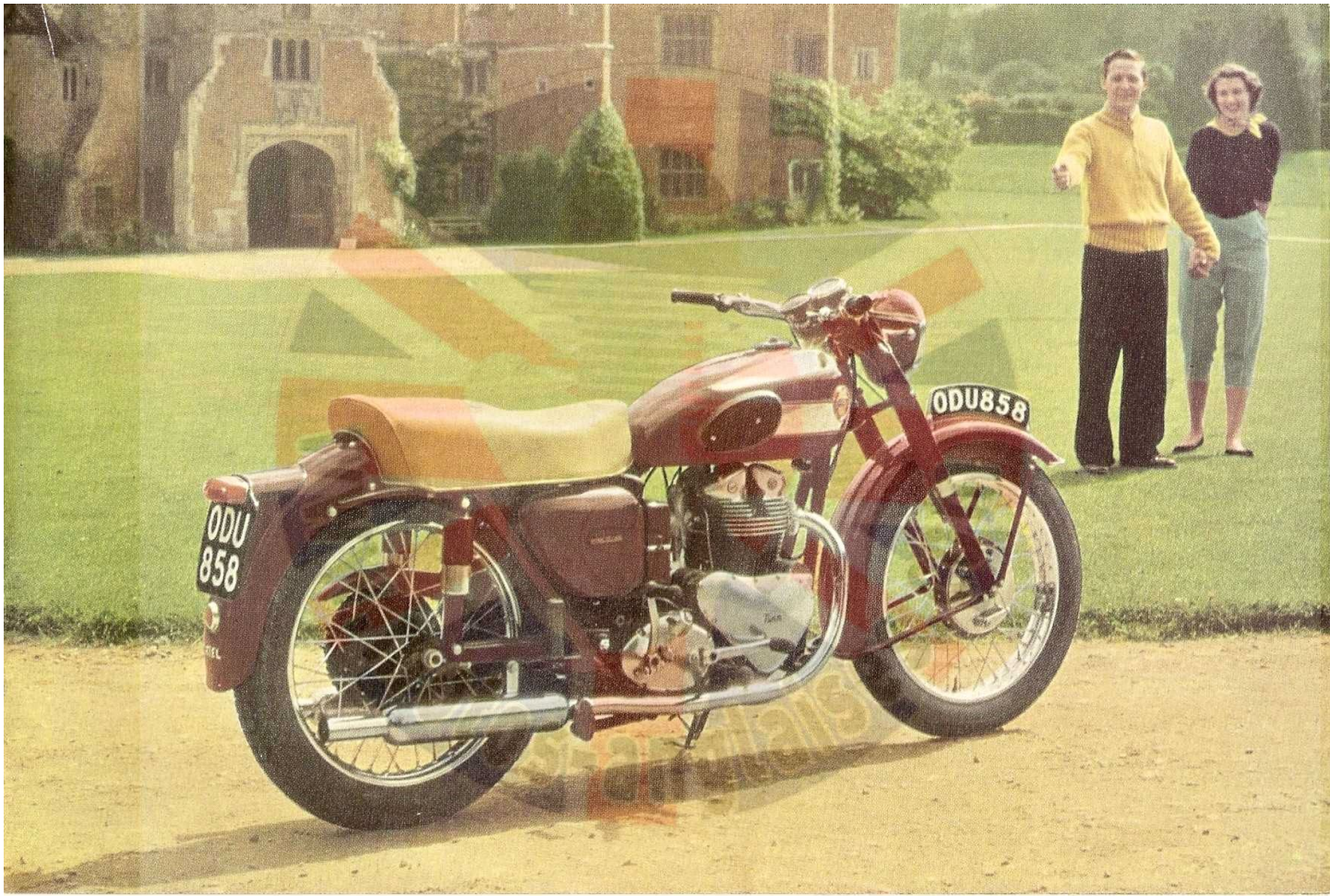
Petrol Tank: Rubber insulated, incorporating quick release cam-operated filler cap. Attractive chromium plated flutes. Rubber knee pads.

Speedometer: 120 m.p.h. (180 km.p.h.).

Lighting: $7\frac{1}{2}$ in. headlamp incorporating lighting switch and ammeter. 56 watt voltage controlled dynamo. 6 volt battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in best quality Deep Claret enamel.



Model VH 500_{cc.} RED HUNTER SINGLE

Engine: Vertical O.H.V. 81.8 x 95 mm.=497 c.c. (3.22 x 3.74=30.4 cubic inches). Cast iron cylinder and polished aluminium alloy cylinder head with valve seat inserts. Vachrome top piston ring. Large diameter mainshaft mounted on two heavy duty roller bearings and one ball bearing. Double row roller big end bearing. Amal Monobloc carburetter with air cleaner. Dual plunger oil pump. Lucas manual ignition control.

Frame: Duplex cradle type, fully triangulated, ensuring great strength and rigidity. Lugs for sidecar attachment either side. Thief-proof steering lock. Swinging arm rear suspension with hydraulic damping. 3½ in. wheel movement. All pivot points rubber bushed. Stands: easy-lift spring-up central and strong tubular front, also prop stand.

Forks: Ariel design. Telescopic with hydraulic control. Large bearing surfaces automatically lubricated. 6½ in. total travel. Steering damper incorporated.

Gearbox: Four-speed, foot control. Three-plate dry clutch.

Transmission: Engine shaft shock absorber. Polished aluminium oil bath primary chain case with separate oil-free compartment for clutch. Rear chain fully protected and lubricated.

Mudguards: Wide D section with tubular stays. Back end of rear guard detachable for easy wheel removal.

Brakes: Ariel design of great power, 7 in. diameter front and rear. Car type fulcrum adjustment.

Seating: Improved Ariel design dual seat with pillion footrests.

Handlebar Controls: Adjustable. Twist grip for throttle. Clutch control lever. Front brake control lever. Ignition, exhaust lifter and air levers. Headlamp dipper switch and horn push button.

Petrol Tank: Rubber insulated, incorporating quick release cam-operated filler cap. Attractive chromium plated flutes. Rubber knee pads.

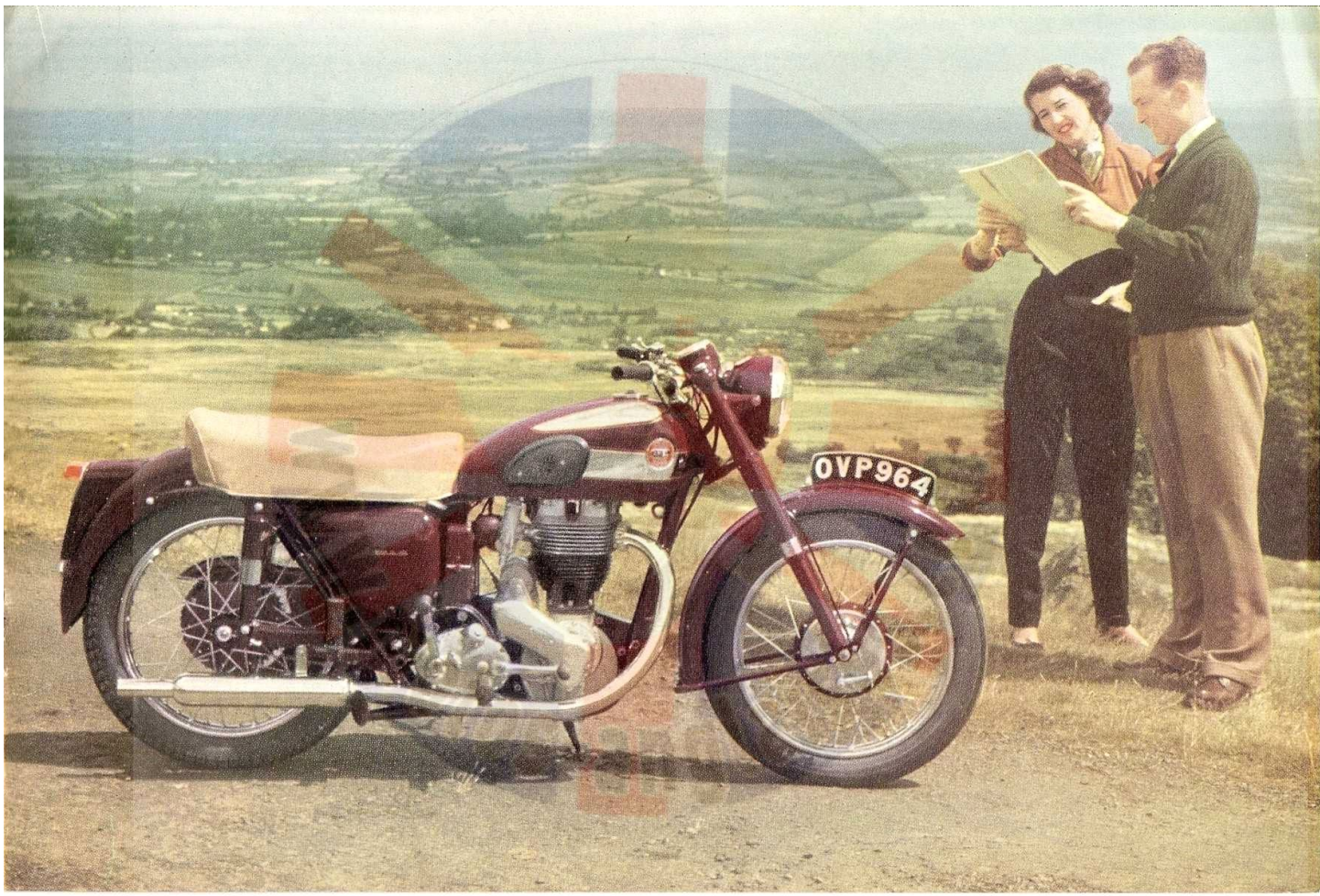
Speedometer: 120 m.p.h. (180 km.p.h.).

Lighting: 7½ in. headlamp incorporating lighting switch and ammeter. 56 watt voltage controlled magdino. 6 volt battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in best quality Deep Claret enamel.





Model NH 350_{c.c.} RED HUNTER SINGLE

Engine: Vertical O.H.V. 72×85 mm.=347 c.c. (2.83 ×3.34=21.2 cubic inches). Cast iron cylinder and head. Vachrome top piston ring. Heavy duty ball bearings on both sides of mainshaft. Double row roller big end bearing. Amal Monobloc carburetter with air cleaner. Dual plunger oil pump. Lucas manual ignition control.

Frame: Duplex cradle type, fully triangulated, ensuring great strength and rigidity. Lugs for sidecar attachment either side. Thief-proof steering lock. Swinging arm rear suspension with hydraulic damping. 3½ in. wheel movement. All pivot points rubber bushed. Stands: easy-lift spring-up central and strong tubular front, also prop stand.

Forks: Ariel design. Telescopic with hydraulic control. Large bearing surfaces automatically lubricated. 6½ in. total travel.

Gearbox: Four-speed, foot control. Three-plate dry clutch.

Transmission: Engine shaft shock absorber. Polished aluminium oil bath primary chain case with separate oil-free compartment for clutch. Rear chain fully protected and lubricated.

Mudguards: Wide D section with tubular stays. Back end of rear guard detachable for easy wheel removal.

Brakes: Ariel design of great power, 7 in. diameter front and rear. Car type fulcrum adjustment.

Seating: Improved Ariel design dual seat with pillion footrests.

Handlebar Controls: Adjustable. Twist grip for throttle. Clutch control lever. Front brake control lever. Ignition, exhaust lifter and air levers. Headlamp dipper switch and horn push button.

Petrol Tank: Rubber insulated, incorporating quick release cam-operated filler cap. Attractive chromium plated flutes. Rubber knee pads.

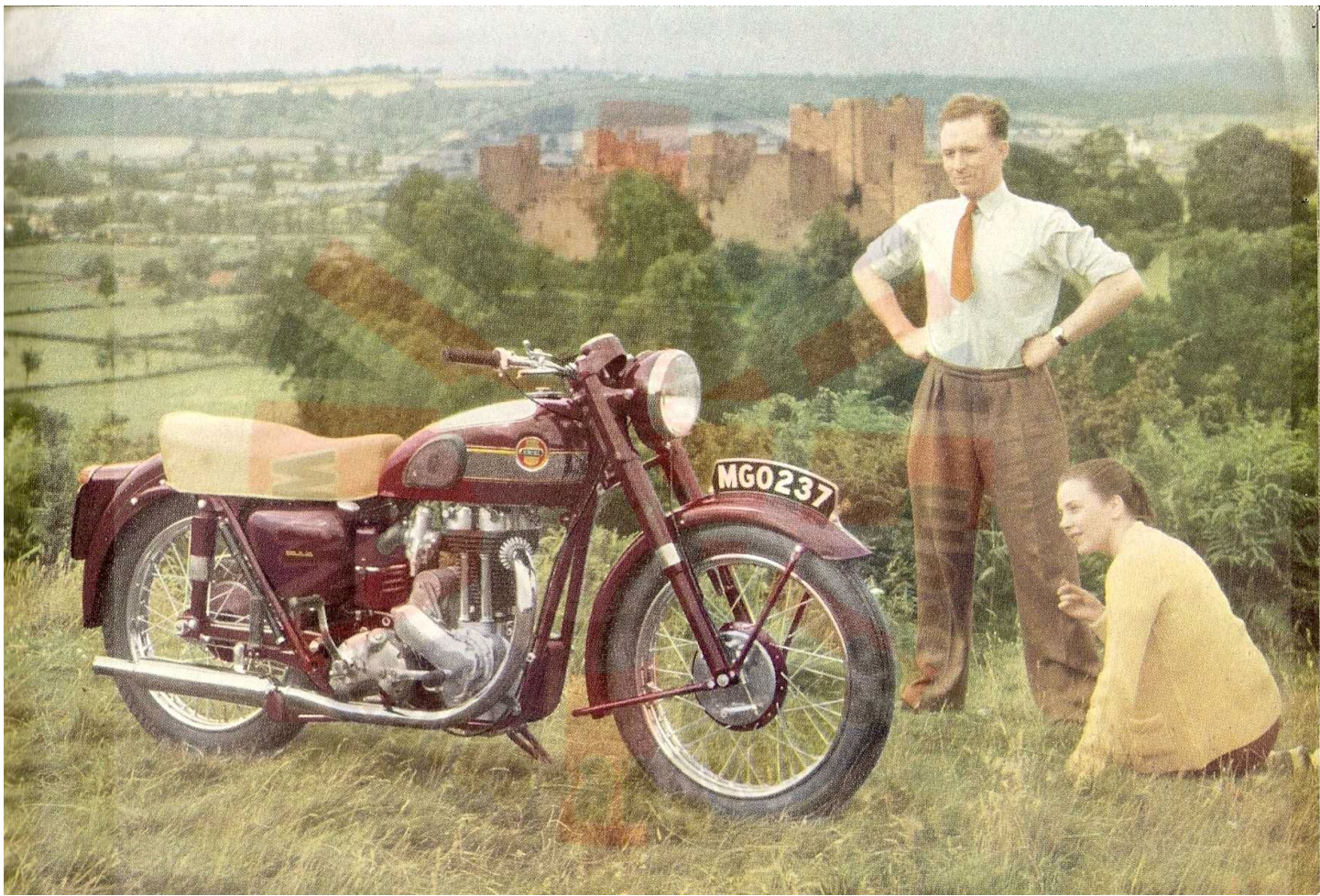
Speedometer: 120 m.p.h. (180 km.p.h.).

Lighting: 7½ in. headlamp incorporating lighting switch and ammeter. 56 watt voltage controlled magdyno. 6 volt battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in best quality Deep Claret enamel.





Model LH 200 c.c. COLT

Engine: Vertical O.H.V. 60×70 mm.=197 c.c. (2.36 × 2.75=12.18 cubic inches). Cast iron cylinder and aluminium alloy cylinder head with valve seat inserts. Heavy duty ball bearings on drive side, plain bearings on timing side of mainshaft. Roller big end bearing. Totally enclosed overhead valves, push rod operated. Double gear oil pump. Amal Monobloc carburettor with air cleaner. 6 volt 48 watt A.C. generator mounted on drive side. Contact breaker with automatic ignition control mounted on timing side of crankcase.

Frame: Robust tubular construction, fully triangulated, with all-welded joints. Plunger rear suspension. 2½ in. wheel movement. Easy-lift spring-up central stand.

Forks: Telescopic with hydraulic control. Automatically lubricated. 4 in. total movement.

Gearbox: Four-speed, foot control. Two-plate clutch with built-in shock absorber.

Transmission: ½ in. × .305 in. front, ½ in. × .205 in. rear roller chains. Primary chain enclosed in oil bath; rear chain protected.

Mudguards: Deep half round section. Rear stay quickly detachable for easy wheel removal.

Brakes: Powerful, 5½ in. front, 5 in. rear.

Seating: Ariel design dualseat. Pillion footrests.

Handlebar Controls: Clutch and brake control levers; twist grip throttle control; horn push and dipper switch.

Petrol Tank: Enamelled and lined, with chromium plated panels. Quick release cam-operated filler cap. Rubber knee pads.

Speedometer: 70 m.p.h. (120 km.p.h.).

Lighting: Rectifier, coil and emergency switch for direct starting. 6 in. headlamp. 9 amp. battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in Deep Brunswick Green enamel.





Model VB 600_{c.c.} SIDE VALVE

Engine: 86.4×102 mm.=598 c.c. (3.4×4.01=36.5 cubic inches). Cast iron cylinder and polished aluminium alloy cylinder head. Vachrome top piston ring. Heavy duty ball bearings on both sides of mainshaft. Totally enclosed valve gear. Double row roller big end bearing. Amal Monobloc carburetter with air cleaner. Dual plunger oil pump. Lucas manual ignition control.

Frame: Duplex cradle type, fully triangulated, ensuring great strength and rigidity. Lugs for sidecar attachment either side. Thief-proof steering lock. Swinging arm rear suspension with hydraulic damping. 3½ in. wheel movement. All pivot points rubber bushed. Stands: easy lift spring-up central and strong tubular front, also prop stand.

Forks: Ariel design. Telescopic with hydraulic control. Large bearing surfaces automatically lubricated. 6¼ in. total travel. Steering damper incorporated.

Gearbox: Four-speed, foot control. Three-plate dry clutch.

Transmission: Engine shaft shock absorber. Polished aluminium oil bath primary chain case with separate oil-free compartment for clutch. Rear chain fully protected and lubricated.

Mudguards: Wide D section with tubular stays. Back end of rear guard detachable for easy wheel removal.

Brakes: Ariel design of great power, 7 in. diameter front and rear. Car type fulcrum adjustment.

Seating: Improved Ariel design dual seat with pillion footrests on Model VB with swinging arm rear suspension. Saddle only on Model VB with rigid frame.

Handlebar Controls: Adjustable. Twist grip for throttle. Clutch control lever. Front brake control lever. Ignition, exhaust lifter and air levers. Headlamp dipper switch and horn push button.

Petrol Tank: Rubber insulated, incorporating quick release cam-operated filler cap. Attractive chromium plated flutes. Rubber knee pads.

Speedometer: 120 m.p.h. (180 km.p.h.).

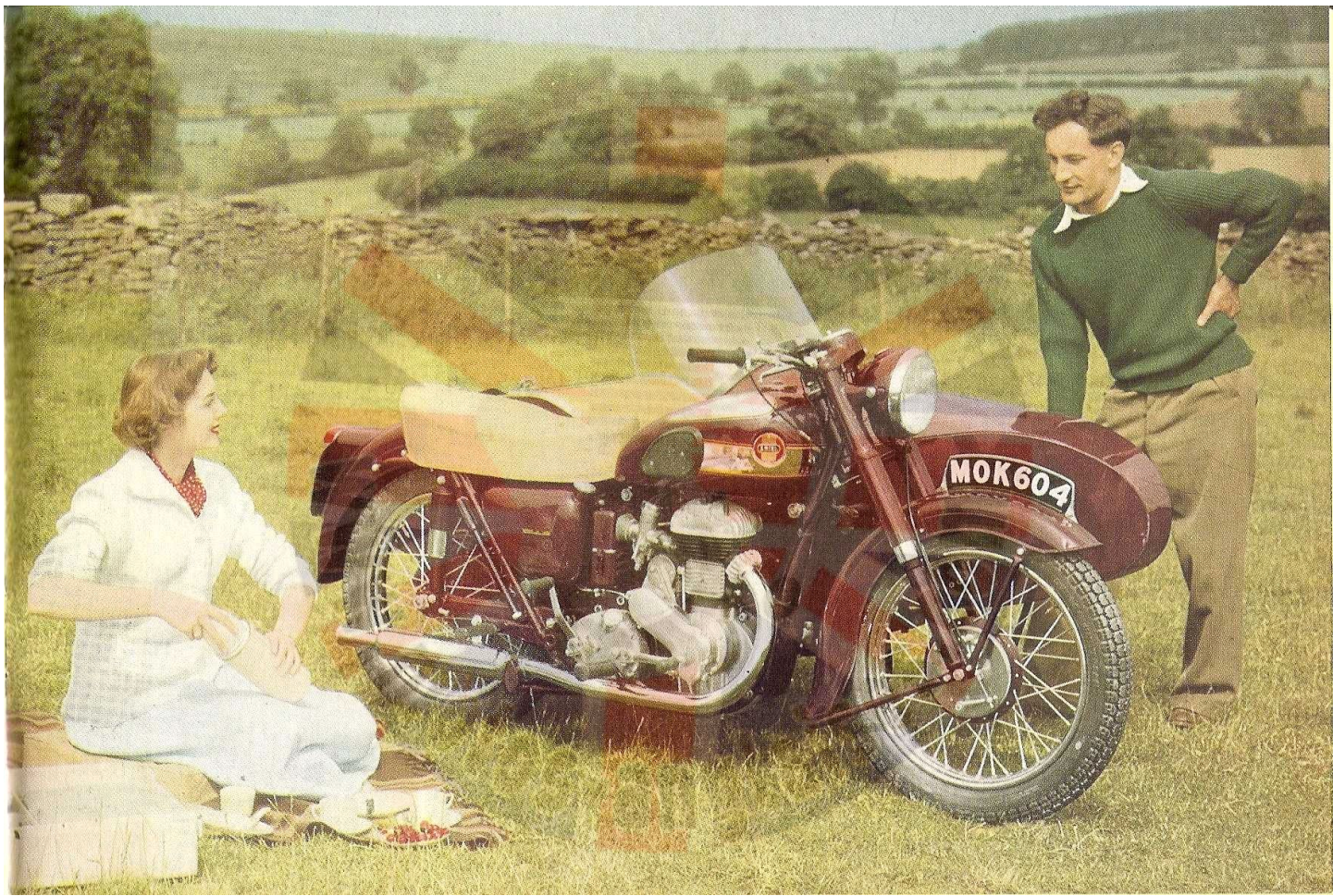
Lighting: 7½ in. headlamp incorporating lighting switch and ammeter. 56 watt voltage controlled magdyno. 6 volt battery. Stop and tail lamp. Reflector. Electric horn.

Equipment: Steel tool box with complete kit of tools and grease gun. Tyre inflator.

Finish: Superbly finished throughout in best quality Deep Claret enamel.

Rigid frame model available, see separate price list.





T E C H N I C A L I N F O R M A T I O N

MODEL	4G	FH	KH	VH	NH	LH	VB
TYPE	O.H.V.	O.H.V.	O.H.V.	O.H.V.	O.H.V.	O.H.V.	S.V.
Number of Cylinders	4	2	2	1	1	1	1
Bore and Stroke	65×75	70×84	63×80	81.8×95	72×85*	60×70	86.4×102
Cylinder Capacity	997	646	498	497	347	197	598
Compression Ratio	7.2	6.5	6.8	6.8	6.2	7.5	6.0
Engine B.H.P.	42	35	28	26	18	10	18
Engine R.P.M.	5,800	5,600	6,200	6,000	5,600	5,600	4,400
Engine Sprocket: No. of Teeth—Solo ...	26	24	21	23	19	17	23
Sidecar ...	23	22	19	19	—	—	19
Solo Gear Ratio—Top	4.18	4.35	5.18	4.74	5.72	7.0	4.74
Third	5.46	5.70	6.77	6.20	7.50	8.5	6.20
Second	7.1	7.40	8.81	8.05	9.72	11.6	8.05
First	11.07	11.55	13.72	12.55	15.15	17.5	12.55
Sidecar Gear Ratio—Top	4.74	4.73	5.72	5.72	—	—	5.72
Third	6.20	6.19	7.50	7.50	—	—	7.50
Second	8.05	8.04	9.72	9.72	—	—	9.72
First	12.55	12.35	15.15	15.15	—	—	15.15
Tyre Size: Dunlop—Front	3.25×19	3.25×19	3.25×19	3.25×19	3.25×19	3.00×19	3.25×19
Rear	4.00×18	3.50×19	3.50×19	3.25×19	3.25×19	3.00×19	3.25×19
Wheelbase (inches)	56	56	56	56	56	51½	56
Overall Length (inches)	86	86	86	86	86	80	86
Handlebar Width (inches)	27	27	27	27	27	27	27
Dualseat Height (inches)	31	31	31	31	31	29½	31
Ground Clearance (inches)	5½	5½	5½	5½	5½	5½	5½
Weight: fully equipped (lbs.)	435	410	390	375	365	270	370
Petrol Tank Capacity (gallons)	5	4	4	4	4	2½	4
Oil Tank Capacity (pints)	6	6	6	6	6	4	6
Petrol Consumption (M.P.G.)	70–75	65–70	75–80	75–80	80–85	100–110	70–75
Approx. Mean and Max. Speed (M.P.H.) ...	100–105	90–95	85–90	80–85	70–75	60–65	70–75

NOTE. Speed and petrol consumption figures do not apply to new machines that have covered less than 2,000 miles. Petrol consumption figures are based on a maintained speed of 45 m.p.h.; Model LH at 35 m.p.h.

Guarantee

We give the following guarantee with our motor cycles, motor cycle combinations and sidecars including all accessories and component parts other than tyres, saddles, chains and lighting and electrical equipment, and other than accessories and component parts supplied to the order of the Purchaser and differing from those comprised in the standard specifications supplied with our motor cycles, motor cycle combinations and sidecars, but including accessories and parts supplied by way of exchange as hereinafter provided. This guarantee is given in place of any implied conditions or warranties or any liabilities whatsoever statutory or otherwise; no guarantee except that hereinafter contained and no condition or warranty whatsoever statutory or otherwise is given or is to be implied nor are we to be under any liability whatsoever except under the guarantee hereinafter contained. Any statement, description, condition or representation contained in any catalogue, advertisement, leaflet or other publication shall not be construed as enlarging, varying or overriding anything herein contained. In the case of machines (a) which have been used for "hiring out" purposes or (b) any motor cycle and/or sidecar used for any dirt tracks, cinder track or grass track racing or competitions (or any competition of any kind within an enclosure for which a charge is made for admission to take part in or view the competition) or (c) machines from which the trade mark, name or manufacturing number has been altered or removed or (d) any machine in which parts have been used not supplied by or approved by the motor cycle manufacturer, or (e) any machine from which the silencing system as fitted by the manufacturer has been partially or wholly removed or interfered with, no guarantee, condition or warranty of any kind statutory or otherwise is given or is to be implied nor are we to be under any liability whatsoever in respect of any such machine.

We guarantee, subject to the conditions mentioned below, that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, but this guarantee is to extend and be in force for six months only from date of purchase, or date of exchange in case of any accessory or part supplied by way of exchange as hereinafter provided, and damages for which we make ourselves responsible under this guarantee are limited to the free repair of or supply of a new part or accessory in exchange for the part of the motor cycle, motor cycle combination or sidecar or accessory which may have proved defective. We undertake, subject to the conditions mentioned below, to make good in manner aforesaid any part or accessory covered by this guarantee which has proved defective within the said period of six months. We do not undertake to replace or refix, or bear the cost of replacing or refixing any such new part or accessory in the motor cycle, motor cycle combination or sidecar. As motor cycles, motor cycle combinations and sidecars are easily liable to derangement by neglect or misuse, this guarantee does not apply to the 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 a motor cycle in such a manner as to cause damage or calculated to render the latter unsafe when ridden.
2. The use of the motor cycle or of a motor cycle 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 motor cycle by any form of attachment not provided, supplied or approved by the manufacturers, or to a motor cycle which is not designed for such use.

We do not guarantee tyres, saddles, chains or lighting and electrical equipment, or any accessories or component parts supplied to the order of the Purchaser differing from those comprised in the standard specifications supplied with our motor cycles, motor cycle combinations or sidecars. As regards all such tyres, saddles, chains, lighting and electrical equipment, accessories and component parts, no guarantee, condition or warranty of any kind statutory or otherwise is given or is to be implied, and we are to be under no liability whatsoever in respect thereof.

CONDITIONS OF GUARANTEE. If a defective part or accessory should be found in our motor cycles, motor cycle combinations or sidecars, or in any part or accessory supplied by way of exchange as before provided, 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 or accessory 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.

REPAIRS. Any motor cycle, motor cycle 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 for three months only from the time such work shall have been executed, and this guarantee is in lieu and in exclusion of all conditions and warranties statutory or otherwise and all liabilities whatsoever 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.

NOTICE. We do not appoint agents for the sale on our behalf of our motor cycles or other goods, but we assign to motor cycle 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 such representation or incur any liability on our behalf.

ARIEL MOTORS LIMITED



BIRMINGHAM 29, ENGLAND

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