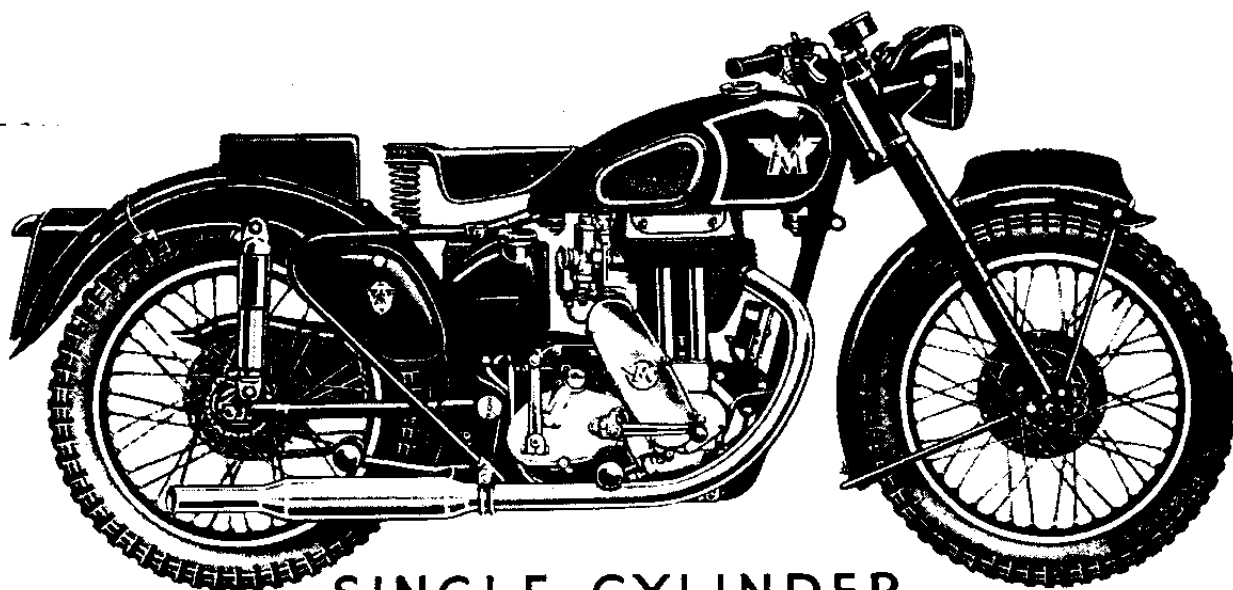


MATCHLESS

A.J.S.



SINGLE CYLINDER THE WORLD'S BEST MOTORCYCLE

FOR CROSS COUNTRY RACING AND SPORT

SPECIFICATION MATCHLESS SINGLE & G80S

ENGINE. Single Port O.H.V. All moving parts totally enclosed and pressure lubricated. Three row caged roller big end bearing. Duplex hairpin valve springs. Stellite tipped valves. wire-wound piston. Amal carburettor. Lucas magneto.

G80S. 82.5 m.m. x 93 m.m. Capacity 498 c.c.

LUBRICATION. Full dry sump with separate oil tank. Large capacity rotary reciprocating oil pump.

GEAR BOX. 4-speed heavyweight. Positive stop foot gear change. Hand-

operated clutch.

FRAME. Duplex cradle with Teledraulic rear suspension. Pivot bearing automatically lubricated by integral chamber in Light Alloy bridge casting. Twin oil-damped spring units rubber bushed. Integral pillion footrest lugs. Centre, prop and tubular front stands.

WHEELS.

G80S. 3.25" x 19" Front and 3.50" x 19" Rear.

Large diameter internal expanding brakes, chromidium drums, taper roller bearings.

FORKS. Teledraulic. oil-damped, self-lubricating.

TANKS. 3 gallon Petrol. 4 pints Oil. Welded pressed steel. Detachable fabric oil filter.

ELECTRICAL EQUIPMENT. Chain-driven generator, 7½" headlamp, car type rear light, voltage control, electric horn, handlebar dipper switch and horn button.

FINISH. All enamelled parts three thicknesses black stoved-enamel on Bonderised finish. All bright parts heavily chromium plated.

SPECIFICATION MATCHLESS TWIN

ENGINE. 498 c.c. Bore 66 m.m. Stroke 72.8 m.m. Vertical Twin. Separate cylinders and Light Alloy cylinder heads with shrunk-in valve seats, integral rocker posts and eccentric rocker spindle valve adjustment. Duralumin pushrods with hardened end caps. Forged Light Alloy connecting rods, low-clearance wire-wound pistons, twin-gear type oil pumps, 26 gallons per hour oil circulation, internal oil feeds to all moving parts, three-bearing heavyweight crankshaft, roller outer main bearings, plain centre bearing and Vandervell big end bearings.

GEAR BOX. 4-speed heavyweight, multi-plate clutch and enclosed positive stop gear control for foot operation.

FRAME. Duplex cradle with pivot type oil-damped Teledraulic rear

springing providing 3" total movement. Integral oil chamber in Light Alloy casting.

WHEELS AND TYRES. 3.25" front and 3.50" rear on 19" rims. Taper roller wheel bearings with extra large diameter rear wheel spindle.

BRAKES. 7½" Internal expanding foot-operated rear, hand-operated front.

FORKS. Telescopic oil-damped Teledraulic with integral headlamp brackets.

ELECTRICAL EQUIPMENT. Gear-driven magneto and dynamo. 7½" fluted domed glass headlamp, Car type rear light, Electric horn. Voltage control unit.

CARBURETTOR. Single semi-automatic needle type Amal.

TANKS. Petrol :—Capacity 3 gallons. Oil :—Capacity 4 pints. Pressed steel welded construction. Quick action filler caps. Detachable fabric oil filter.

STANDS. Forged steel low lift spring-up centre stand, foot-operated prop stand and tubular front.

TRANSMISSION. Self-lubricating engine shaft shock absorber, primary chain enclosed in oil bath case. Rear protected by efficient deep section guard. Cam type chain adjuster.

FINISH. Three thicknesses of stoved black enamel after Bonderising. All bright parts heavily chromium plated. Tank, chromium plated with Aldwych red panel and chrome-plated winged 'M.'

TELEDRAULIC REAR SUSPENSION