

Introducing the entirely new

**WOOLER**

**Flat Four Cylinder Motor Cycle**

**This superb 500 c.c. Motor Cycle with its 4 cylinder engine and shaft drive sets a new standard in motor cycling, of speed, comfort, flexibility and control. On inspection this new "WOOLER" will show that it is not only unique in design but that it is completely designed down to the last nut, bolt and spring. To own THE WOOLER is to own the BEST in in motor cycling as proven by the following features :**

**ACCESSIBILITY** The complete machine can be dismantled with one spanner, only two nut sizes and the plug being used throughout. The complete power unit can be removed from the frame in 10 minutes whilst the rear wheel can be easily removed in 2 or 3 minutes.

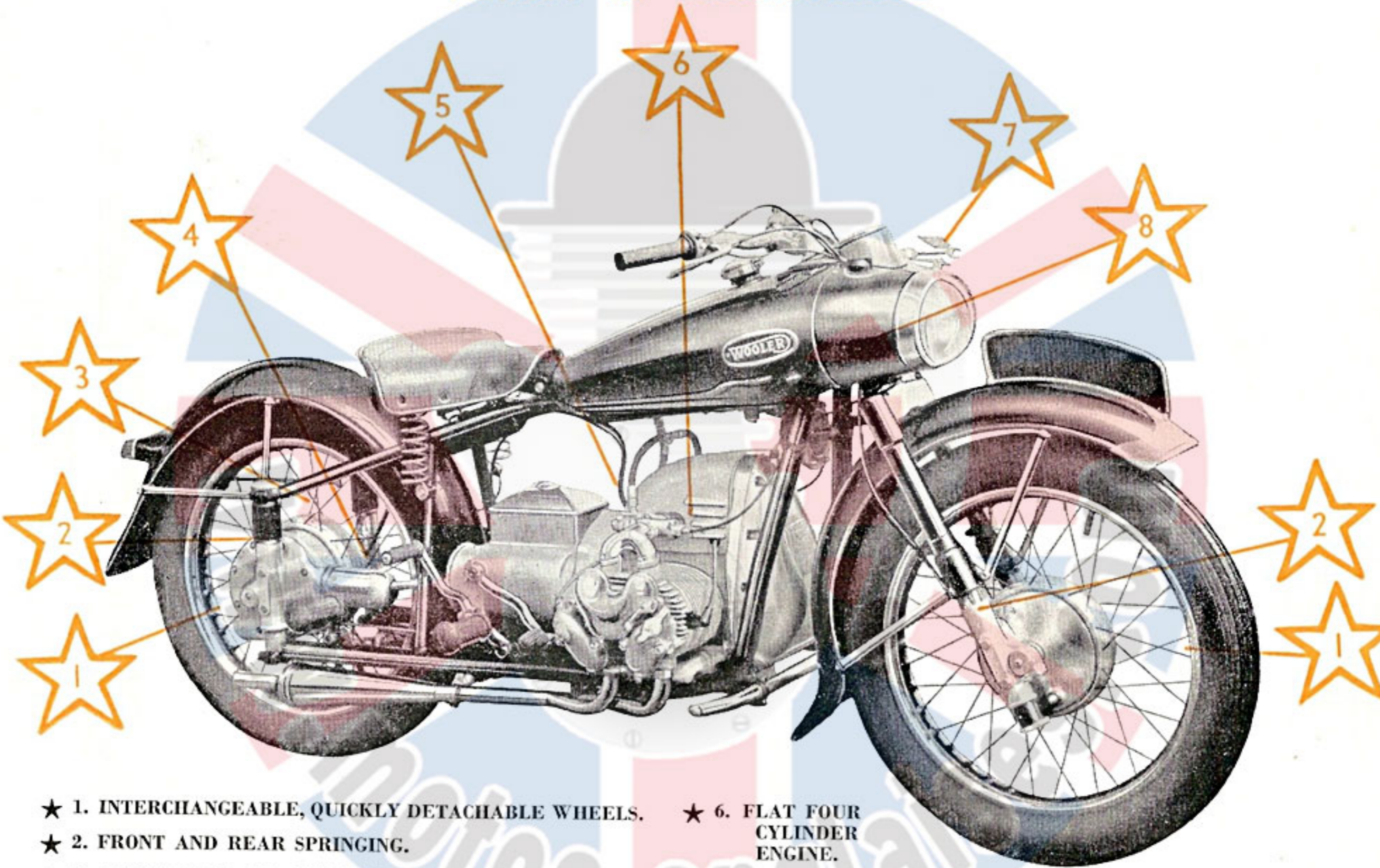
**RELIABILITY** Careful consideration of every detail has resulted in a machine which gives thousands of miles of trouble free running.

**PERFORMANCE** Superb acceleration and top speeds of 90 m.p.h are obtainable on standard machines.

**COMFORT** The smooth torque of the four cylinder engine, together with front and rear suspension, combine to produce a machine free from vibration, which can be ridden for several hundred miles without fatigue.

**LIGHTWEIGHT** A total weight of under 300 lbs. together with the low centre of gravity gives excellent road-holding and provides a machine that can be easily handled by any rider.

# STARS OF ORIGINALITY



- ★ 1. INTERCHANGEABLE, QUICKLY DETACHABLE WHEELS.
- ★ 2. FRONT AND REAR SPRINGING.
- ★ 3. ALLOY HUBS AND MASSIVE BRAKES.
- ★ 4. SHAFT DRIVE.
- ★ 5. UNIT CONSTRUCTION.

- ★ 6. FLAT FOUR CYLINDER ENGINE.
- ★ 7. COMPLETE ACCESSIBILITY—ONE SPANNER ONLY.
- ★ 8. PETROL TANK INCORPORATING ELECTRICAL EQUIPMENT.

# S P E C I F I C A T I O N

## ENGINE

500 c.c. (50 x 63.5 m.m.) **FLAT FOUR** cylinder. Light alloy cylinders with liners; cylinder heads, crank case and sump in light alloy. Bearings: Vandervell thin wall for big ends; and three main bearings on crankshaft; Camshaft and timing gear drive by Reynolds 8 m.m. Duplex chain; patent rocker and valve gear.

## CARBURETTOR

**TWIN.**

## GEAR BOX

Four speed constant mesh gear box specially designed to run in engine oil. Designed so as to form an integral part of the power unit and incorporating a double plate **FERODO** clutch of car type. Special design of easy light operating gear change. Ratios: Bottom 11.5: 1; 2nd 7.3: 1; 3rd 6.16: 1; Top 5.0: 1.

## TRANSMISSION

**SHAFT DRIVE** to rear wheel incorporating a **LAYRUB** shock absorbing joint and **HARDY SPICER UNIVERSAL** coupling with spiral bevel pinion and crown wheel.

## IGNITION

**LUCAS A.C.** generator and distributor.

## LUBRICATION

Gear driven oil pump, maintaining a high pressure oil supply to all working parts. A reservoir of half gallon capacity incorporated in a deep sump. Gear Box and Shaft Drive also lubricated with engine oil. Twin filters to ensure continuous purification of oil.

## FRAME

**WOOLER PATENT DUPLEX** Frame with rear springing taking all road shocks and reactions. **SPECIAL** fabricated **DUPLEX HEAD LUG.**

## FORKS

**WOOLER PATENT** design Duplex steering stem and similar springing system to that used for the frame.

## SUSPENSION

**ORIGINAL WOOLER PATENT** springing, front and rear, with compound springs set to automatically adjust for varying loads and speeds.

## STANDS

Centrally positioned, easily operated, independent stands.



## WHEELS

19in. by 3.25in. detachable wheels of special design incorporating INTERCHANGEABILITY. Patent design Dural HUB fitted with straight spokes. Dural rims supplied at an extra charge.

## BRAKES

Patent design of hubs of 7in. internal diameter fitted with steel liner and FERODO brake linings.

## TYRES

19in. x 3.25in. by Dunlop.

## MUDGUARDS

Special design, eliminating all exposed nuts and bolts thus ensuring freedom from rusting, with the rear end of the guard being so shaped as to carry the registration number and rear lamp.

## HANDLEBARS

WOOLER PATENT cluster controls with single bolt fitting, embodying positive action twist grip for throttle and ignition control as well as horn push and cut out switch.

## PETROL TANK

Specially designed streamline tank embodying lighting and speedometer. Fuel capacity  $3\frac{1}{8}$  gallons.

## SADDLE

Specially manufactured by Wrights in brown leather.

## LIGHTING

Special LUCAS lamp built into tank nose. Latest LUCAS rear lamp built into rear mudguard.

## FINISH

In black and chrome. All enamelled parts pre-treated to ensure rust freedom with only really high quality materials used throughout.

## WEIGHT

Complete machine weighs under 300 lbs. when fully equipped.

## PRICE

£243 10s. 0d. (plus £48 14s. 1d. P.T. in G.B.)

## EXTRAS

Pillion seat and foot rests, dual seat, Dural rims, etc.

## SIDECAR

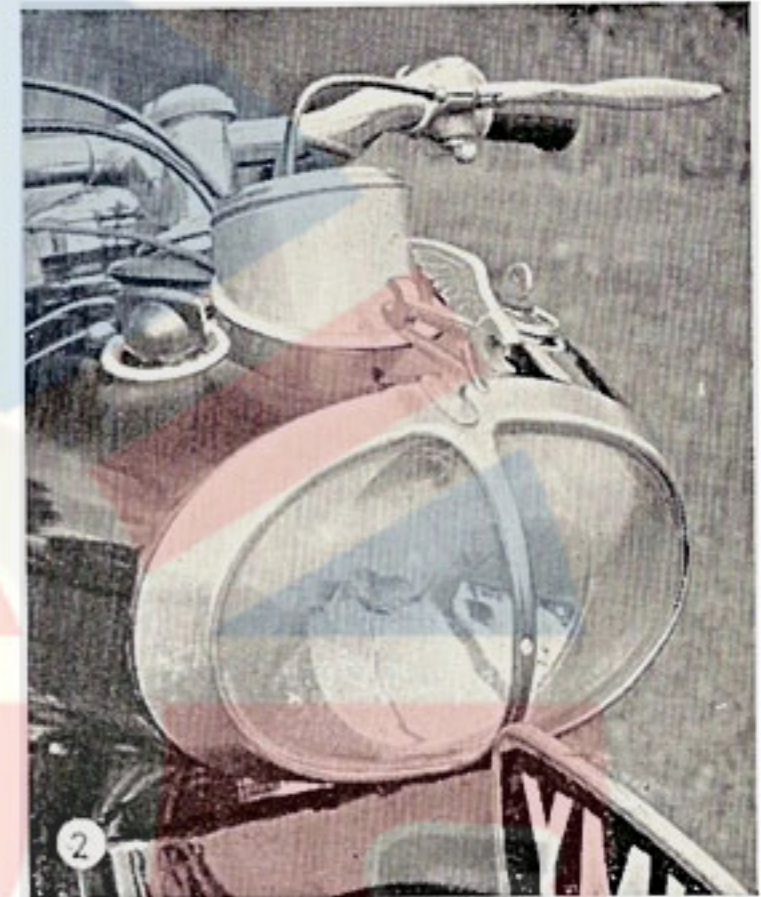
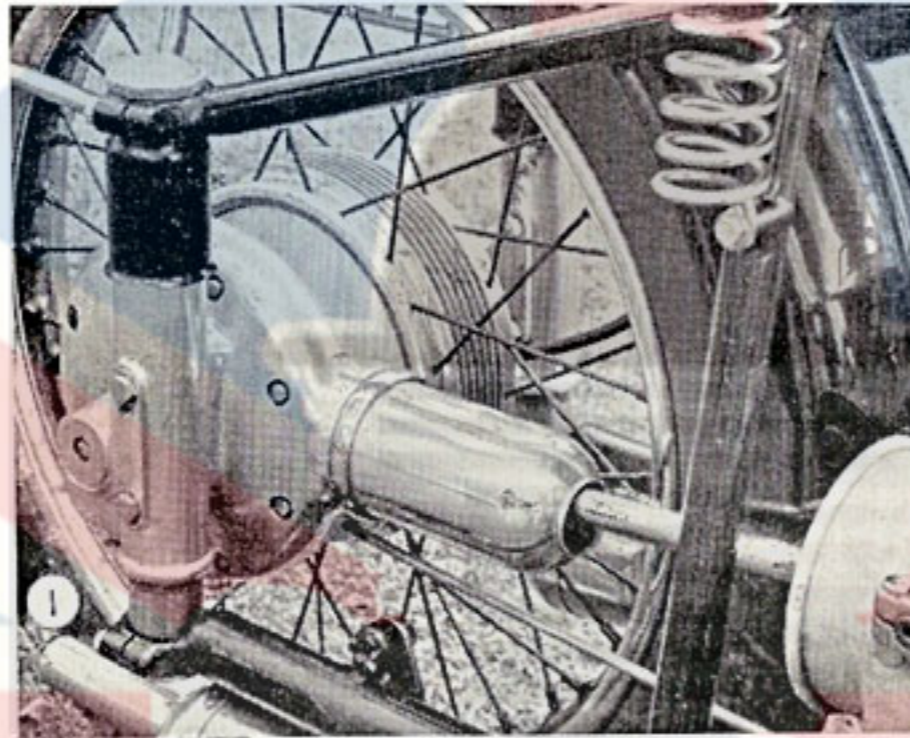
Specially designed frame and sidecar chassis which embodies the same springing system and INTERCHANGEABLE wheels, complete with BRAKES, as used on the solo model, is available for use on the WOOLER MOTOR CYCLE. All sidecar chassis will leave our works correctly aligned and will require no additional adjustment.



## Some Outstanding Features

**1** Shaft Drive and Rear Springing.

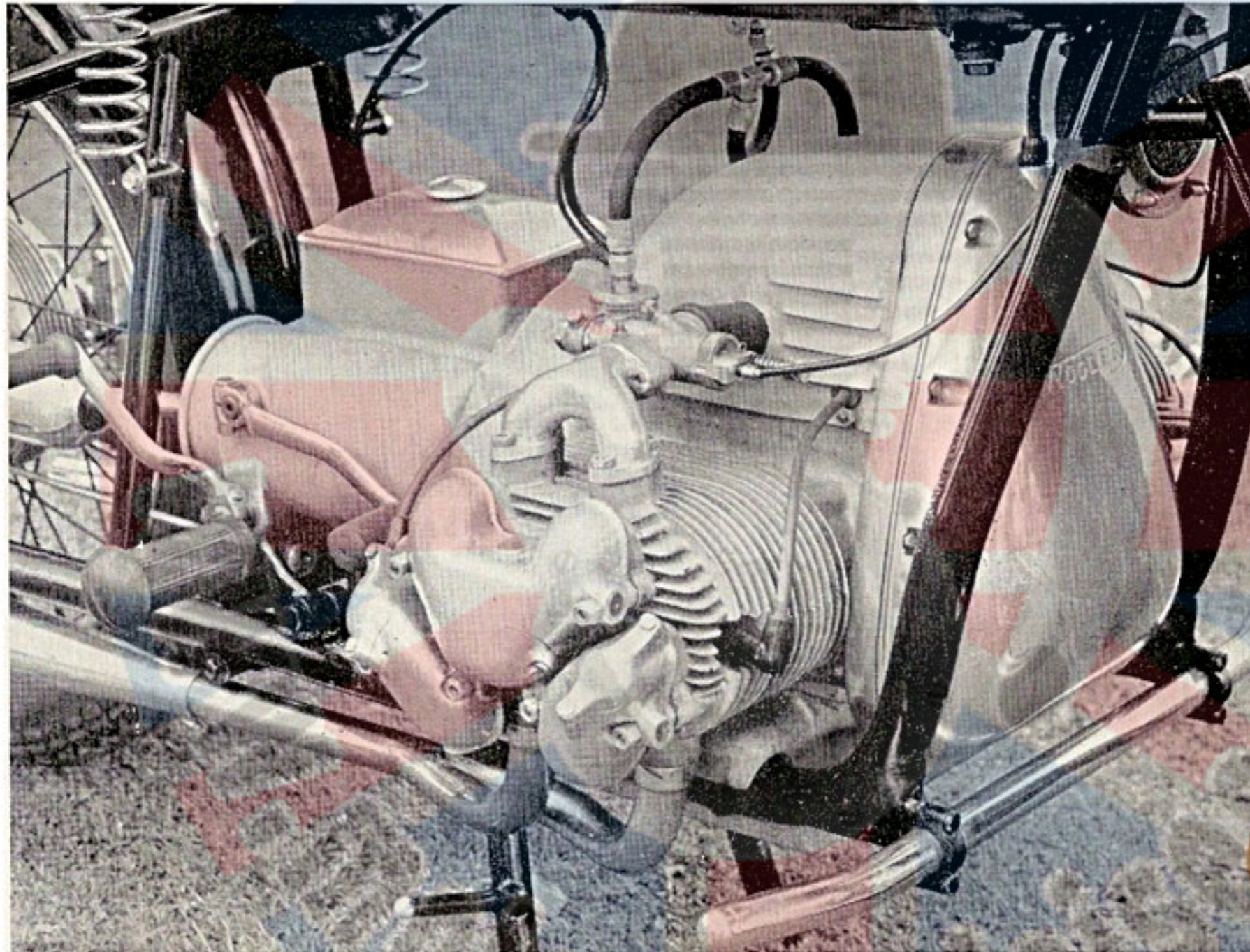
**3** Front Wheel showing Suspension System and Massive Brake Drum.



View of Tank Incorporating Head Lamp, Switches and Speedometer.

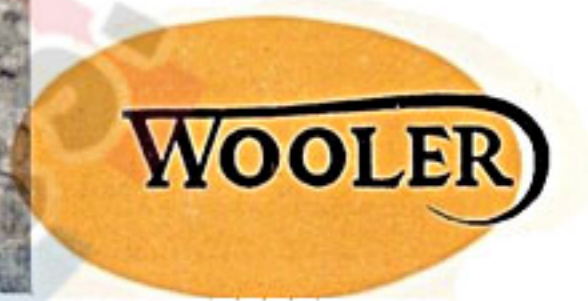
Note:—Single bolt fixing for handlebar control unit.

Rear Mudguard also used as Number Plate.



**Close Up  
View of Unit  
Construction  
Engine and  
Gear Box**

**Note:—Large sump containing oil supply.  
Cast in tool box over gear box.  
Front engine cover enclosing timing gear and A.C. Generator.  
Light alloy cylinders and cylinder heads.**





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**MADE IN ENGLAND**