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## MOTOR CYCLES

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or many years A.J.S. motor cycles have been noted for their superb finish, mechanical excellence and extreme reliability.

The extensive experience gained in racing, record breaking, Trials and other competitive events has been fully utilised in the production of standard machines and by reason of this consistent technical development A.J.S. motor cycles represent the ultimate in modern motor cycle design.

Braking, steering, suspension, finish and appearance have been still further improved for 1948 and in their latest form the Model 16M and Model 18 should prove ideally suited to the requirements of the most fastidious rider.

### **A.J.S. MOTOR CYCLES**

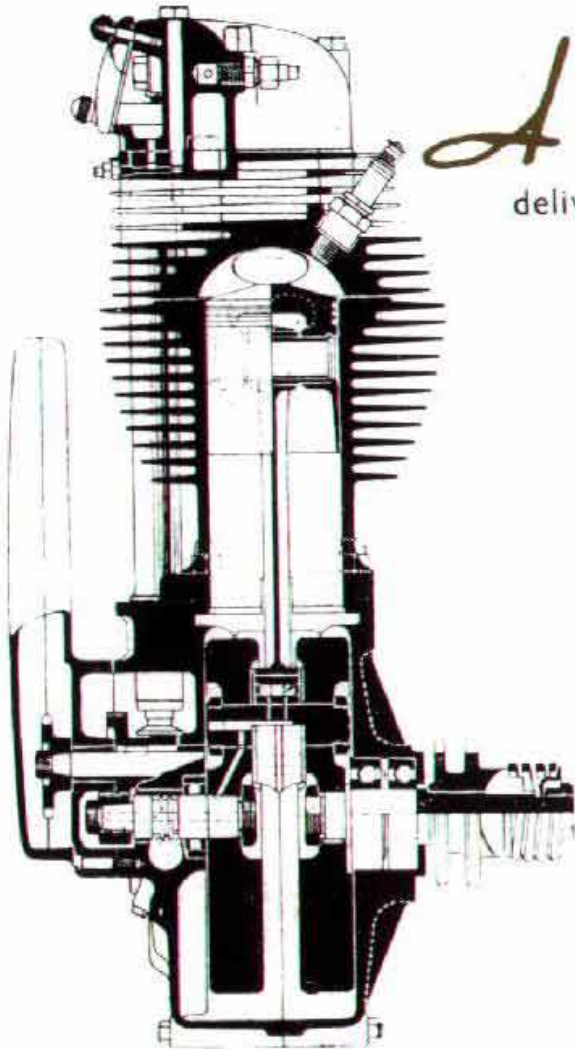
**PLUMSTEAD ROAD, LONDON, S.E.18, ENGLAND**

Proprietors : ASSOCIATED MOTOR CYCLES LTD.

Telephone : WOOLWICH 1223

Telegrams : ICANHOPIT, WOL, LONDON

# FREE SERVICE SCHEME



All authorised A.J.S. Dealers undertake to carry out the following free service inspection to customers motor cycles at 500 miles, but not later than three months after delivery :

(A) Check and if necessary adjust—

1. Valve Clearances.
2. Contact Breaker Points.
3. Sparking Plug.
4. Clutch.
5. All Chains.
6. Wheel Bearings.
7. Brakes.
8. Forks and Steering Head.
9. Alignment of Wheels.
10. Tyre Pressures.

(B) (b) Tighten all external nuts and bolts including Cylinder Bolts.

(c) Top up Battery and check all Lighting Equipment.

(d) Clean out Carburettor and adjust mixture.

(e) Adjust and lubricate all Cables.

(f) Grease all Nipples.

(g) Drain Oil System. Clean Filter and replenish.

(h) Check oil level in front Chain case.

(i) Top up Gear Box.

(j) Test machine on road.

(C) Note : Oils, grease and materials used are chargeable to the customer.

Owners of A.J.S. motor cycles are strongly recommended to avail themselves of this scheme in order to obtain the best from their motor cycle.

# SPECIFICATION

## MODELS 16M and 18

ENGINE.	Bore	Stroke	Capacity
Model 16M	69 mm.	93 mm.	347 c.c.
Model 18	82.5 mm.	93 mm.	498 c.c.

Both engines are of the single port O.H.V. type and incorporate the latest features of design. All moving parts are totally enclosed and lubricated from the main engine pump, and the valve gear is readily accessible for adjustment by the removal of the cover plate provided.

Of exceptionally rigid construction the flywheel assembly is supported on the drive side by two large diameter ball races, and on the timing side by a plain phosphor bronze bearing. The big end bearing is of particular interest and comprises a two piece crankpin, Duralumin cage and triple row roller bearing.

**LUBRICATION.** Full dry sump system with large capacity rotary reciprocating plunger pump and separate oil tank. Pressure feed to big end, main bearings, valve gear, piston and camshaft bearings.

**GEAR BOX.** Four speed heavyweight with enclosed foot gear-change mechanism and handlebar controlled clutch.

**TRANSMISSION.** Primary chain enclosed in oil bath chaincase. Rear chain protected by efficient deep section guard. Smooth running ensured by efficient spring loaded cam type shock absorber.

**CARBURETTOR.** Semi-automatic Amal. Quick action twist grip and lever air control.

**FRAME.** Heavy gauge steel tube duplex cradle, with single straight front down member. Integral pillion footrest lugs and forged rear fork ends.

**FORKS.** Patented "Teledraulic" with three rate springs and re-designed "shuttle" type hydraulic damping. Self lubricating and no maintenance required.

**STANDS.** Central prop stand, tubular front and spring-up rear.

**HANDLEBARS.** Chromium plated, fully adjustable semi-sports.

**TANKS.** Welded steel 3 gall petrol tank with twin cork seated filter taps. Three pint oil tank of same construction incorporating detachable fabric filter.

**BRAKES.** New type large diameter internal expanding with finger adjustment.

**SADDLE.** Large Lycett spring seat with wide range of adjustment.

**WHEELS. Model 16M :** 19" front and rear with 26" x 3.25" Dunlop Tyres.

**Model 18 :** 19" front and rear with 19" x 3.25" front and 15" x 3.50" rear Duplop Tyres.

**MUDGUARDS.** Portion of rear guard quickly detachable for wheel accessibility. Both guards of special efficient section and design.

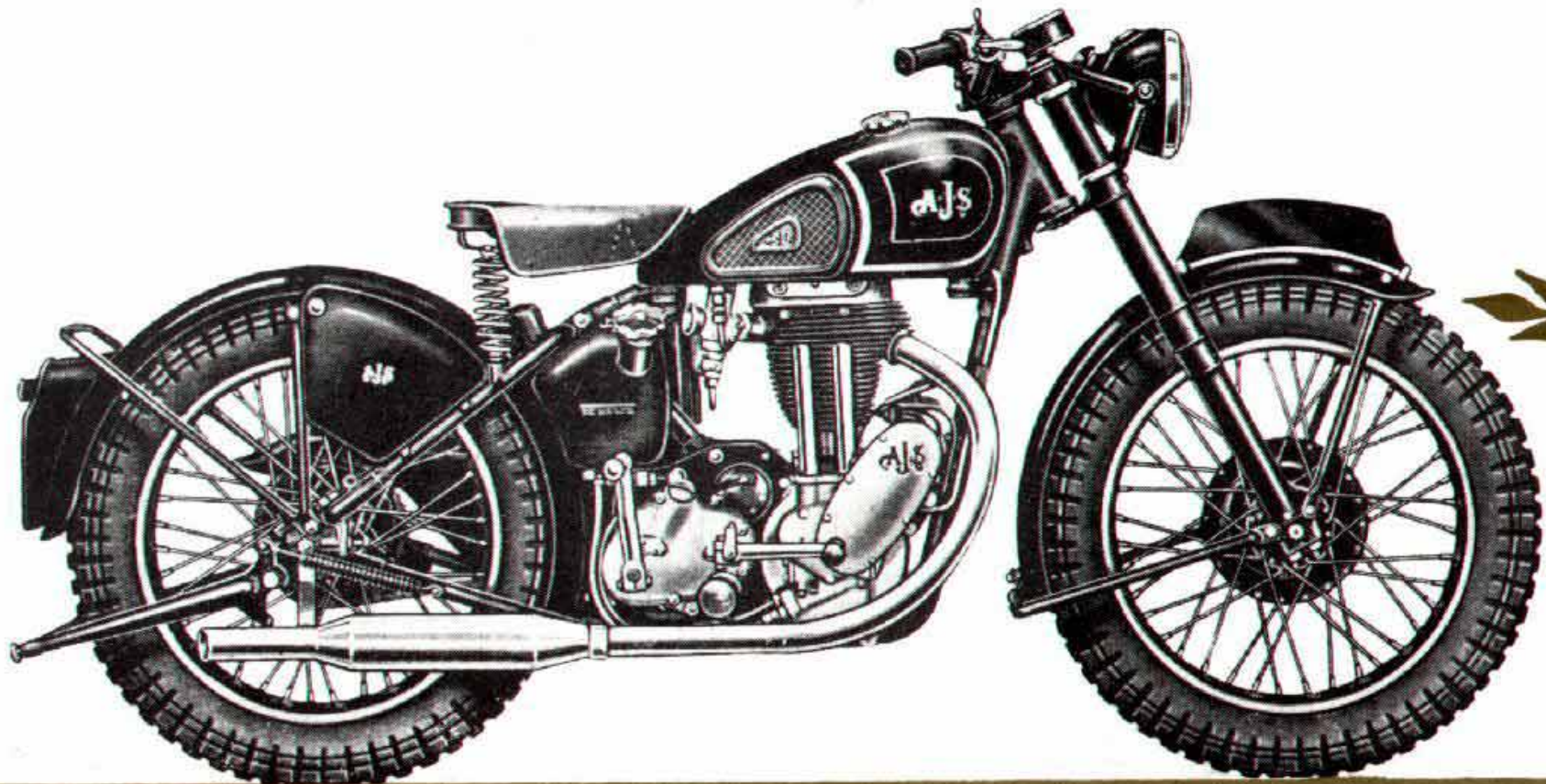
**ELECTRICAL EQUIPMENT.** Separate magneto and dynamo independently driven by roller chains in oil bath cases. Large diameter headlamp, handlebar dipper switch, electric horn, centrally mounted battery and constant voltage control.

**FINISH.** Three coats of finest quality black stove enamel on Bonderized surface. Wheel rims, handlebars, headlamp rim, saddle springs, battery carrier, filler caps, exhaust system and many other parts chromium plated. Petrol tank and wheel rims hand-lined in gold. Gear Box end cover and magneto drive cover highly polished.

**EQUIPMENT.** Full set of tools including grease gun and tyre pump. Ninety Page Instruction Manual.

# MODEL 16 M

347 c.c. O.H.V.

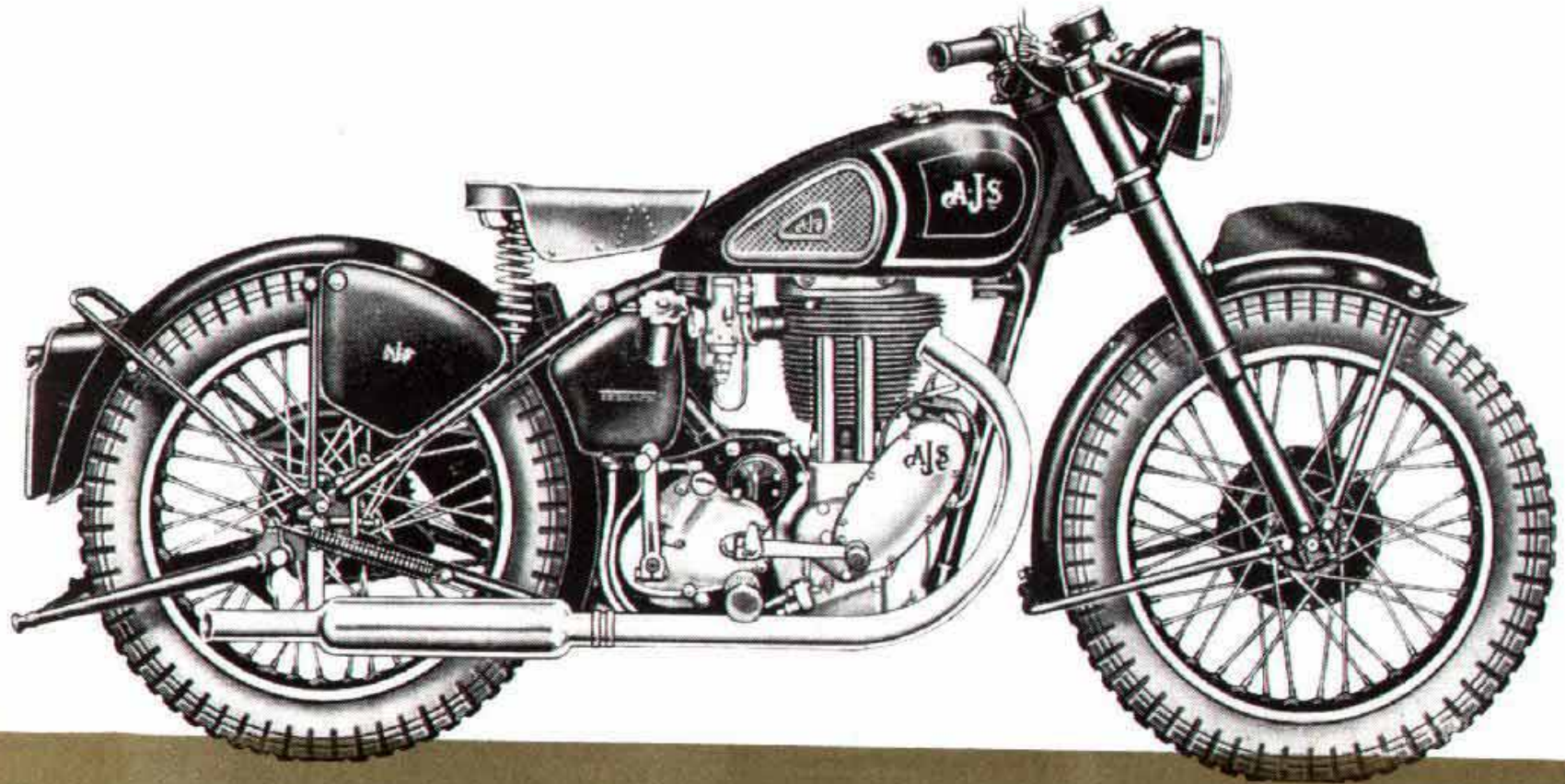


UNDOUBTEDLY ONE OF THE  
MOST OUTSTANDING 350cc  
MOTOR CYCLES EVER PRO-  
DUCED.

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# MODEL 18

498 c.c. O.H.V.



A QUALITY MOTOR CYCLE  
THAT SATISFIES THE MOST  
EXACTING REQUIREMENTS.

# THE COMPETITION MODELS

Introduced with the object of providing the Sporting rider with a machine capable of competing with success in Trials and Scrambles the A.J.S. Competition models have rapidly gained an enviable reputation. The specially designed frame enables complete control to be maintained at negligible speeds, and this outstanding feature, coupled with the ability of the engine to run at equally low speed with the clutch fully engaged and without fear of stalling, has contributed to the many successes gained during the past year.

To ensure that the limited number of Competition models that we are able to manufacture, fall into the best possible hands, potential owners are requested to give an undertaking that they will primarily use their machine for the purpose intended.



B. H. M. VINEY WITH HIS 347 c.c. COMPETITION A.J.S.  
WINNER OF THE 1947 SCOTTISH SIX DAYS' TRIAL.

On Tuesday, he made the only clean climb of the Devil's Staircase, but today he brought upon himself the whole battery of limelights by achieving the astonishing feat of handing in a clean card for a route that included two hills which each beat every other soloist.  
*Vide MOTOR CYCLING, June, 1947.*

## DEVIATIONS FROM STANDARD SPECIFICATION

21" x 3-00" Front and 19" x 4-00" Rear Wheels.

Security Bolts fitted to both Tyres. Short Wheelbase Frame.

Light Alloy mudguards, folding kickstarter, duplicated cables, KE.805 Rear spindle.

Footrests fitted inside Frame Tubes. Weight " 350 " 338 lbs.; " 500 " 354 lbs.

### Gear Ratios :

			Top	Third	Second	First
350 c.c.	...	...	6-5	8-4	13-7	20-8
500 c.c.	...	...	5-8	7-5	12-2	18-5

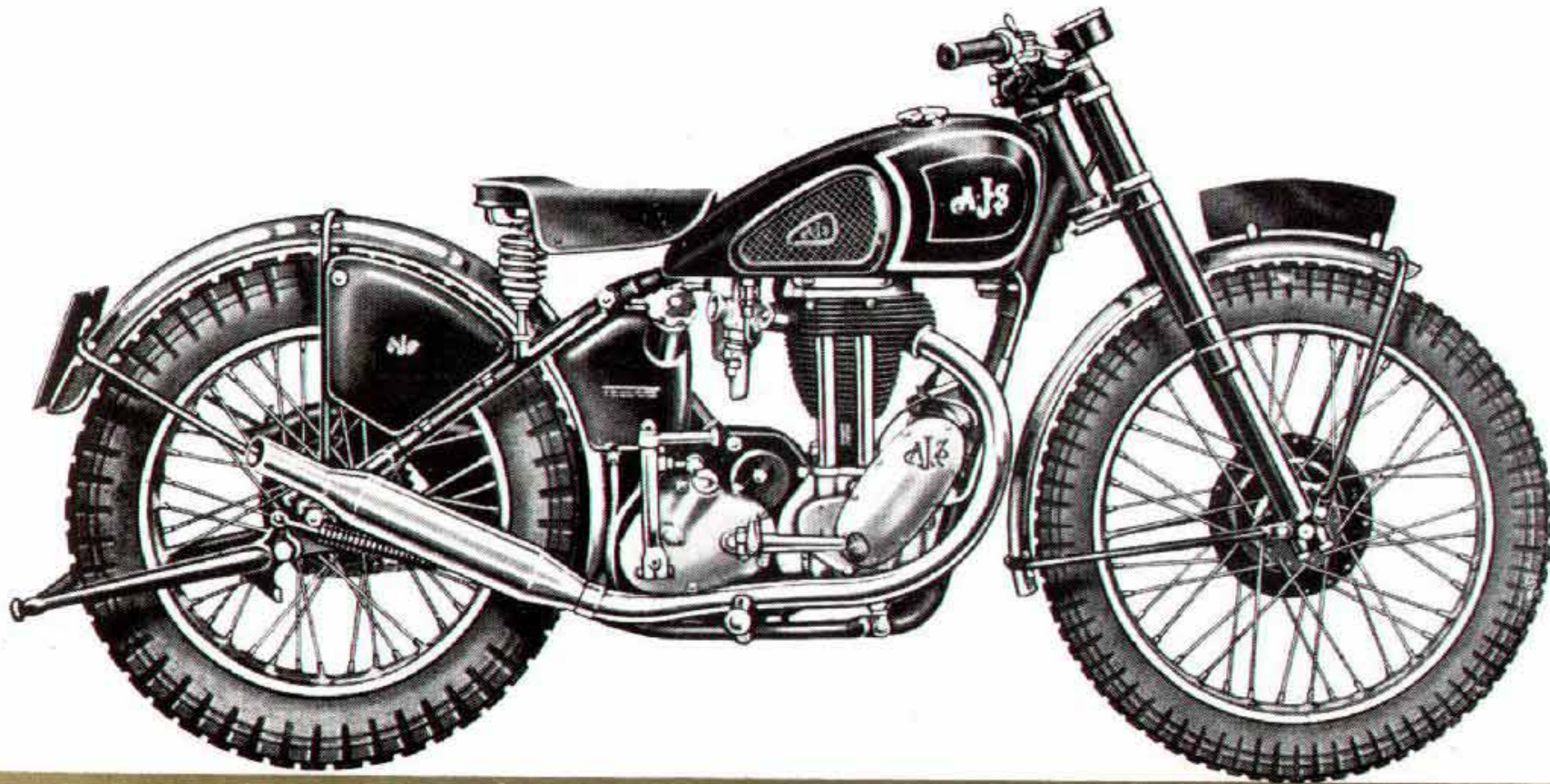
Unless specified Competition models are supplied without electrical equipment. If primarily required for Scrambles the standard type-gear box can be fitted and is recommended.

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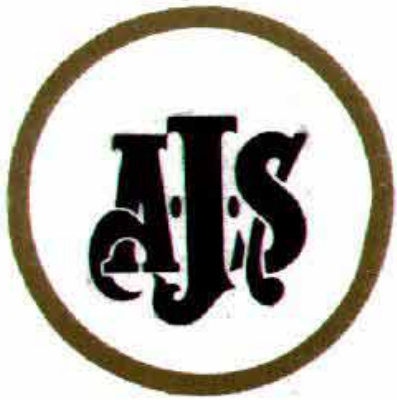
# COMPETITION MODEL

347 c.c.

498 c.c.



THE IDEAL MOTOR CYCLE FOR  
TRIALS AND SCRAMBLES.



## 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 representation, or incur any liability on our behalf.

## GUARANTEE

We give the following guarantee with our motor cycles, motor cycle 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 (a) which have been used for 'hiring-out' purposes, or (b) any motor cycle and/or sidecar used for any dirt track, 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 removed, no guarantee, condition or warranty 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 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 motor cycle, motor cycle 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 parts in the motor cycle, motor cycle 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 motor cycles, motor cycle 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 a motor cycle in such a manner as to cause damage or calculated to render the latter unsafe when ridden.

2. The use of a 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 us, or to a motor cycle which is not designed for such use.

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 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 motor cycles, motor cycle 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, electrical equipment, lamps, etc., or any component parts supplied to the order of the Purchaser differing from standard specifications, supplied with our motor cycles, motor cycle combinations, sidecars, or otherwise.

## **LIST OF OPTIONAL EQUIPMENT**

Detachable Luggage Carrier. 80 m.p.h. Speedometer. 120 m.p.h. Speedometer. Mudguard type Pillion Seat. Folding Pillion Footrests.