



Quality Motor Cycles for 1951

The ability of the A.J.S. Design Department to take full advantage of the invaluable data available, as a result of many years active and successful participation in International Trials and Races, has played an important part in maintaining the superiority of A.J.S. Motor Cycles, and as a direct result, a considerable increase in performance has been made possible for the 1951 Season without any detrimental effect on mechanical silence or tractability.

The necessity of providing a standard of steering, braking and road-holding in keeping with the improved performance, has not been overlooked, and the incorporation of re-designed rear suspension units and a new system of front fork damping has achieved the desired result. A.J.S. leadership in design and performance has long been recognised in the Motor cycle world, and there can be no doubt that this reputation will be still further enhanced by the 1951 Models.

RIDE A.J.S. AND ENSURE SUCCESS!

A.J.S. MOTOR CYCLES

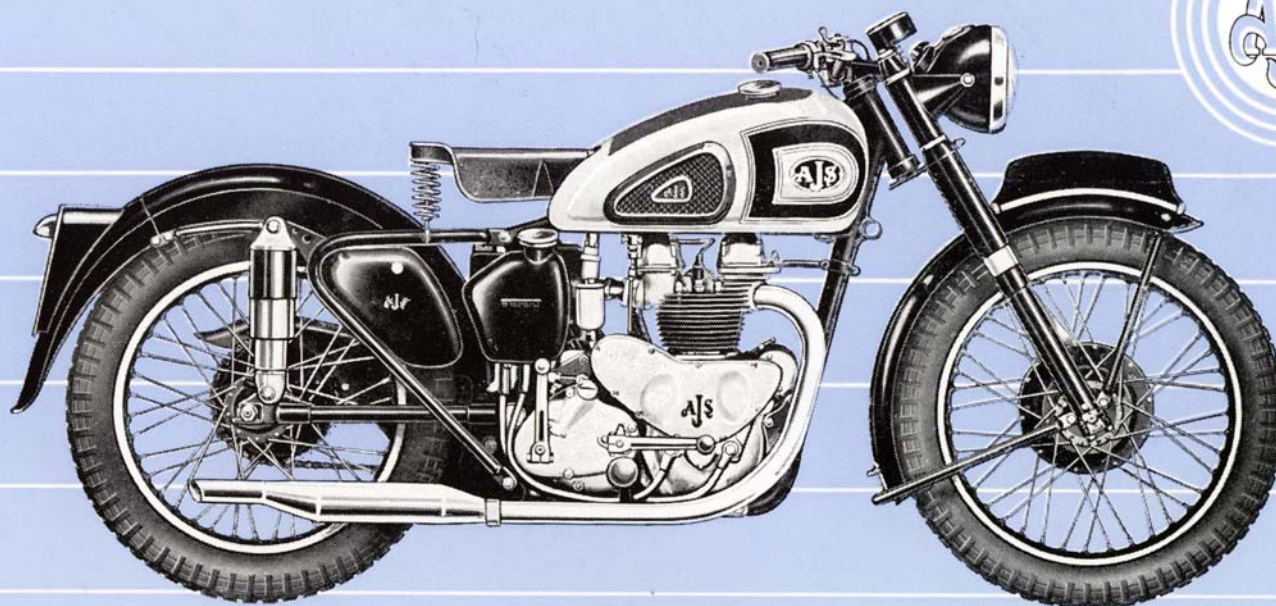
Proprietors : ASSOCIATED MOTOR CYCLES LTD.

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

Telephone : WOOLWICH 1223

Telegrams : ICANHOPIT, WOL, LONDON





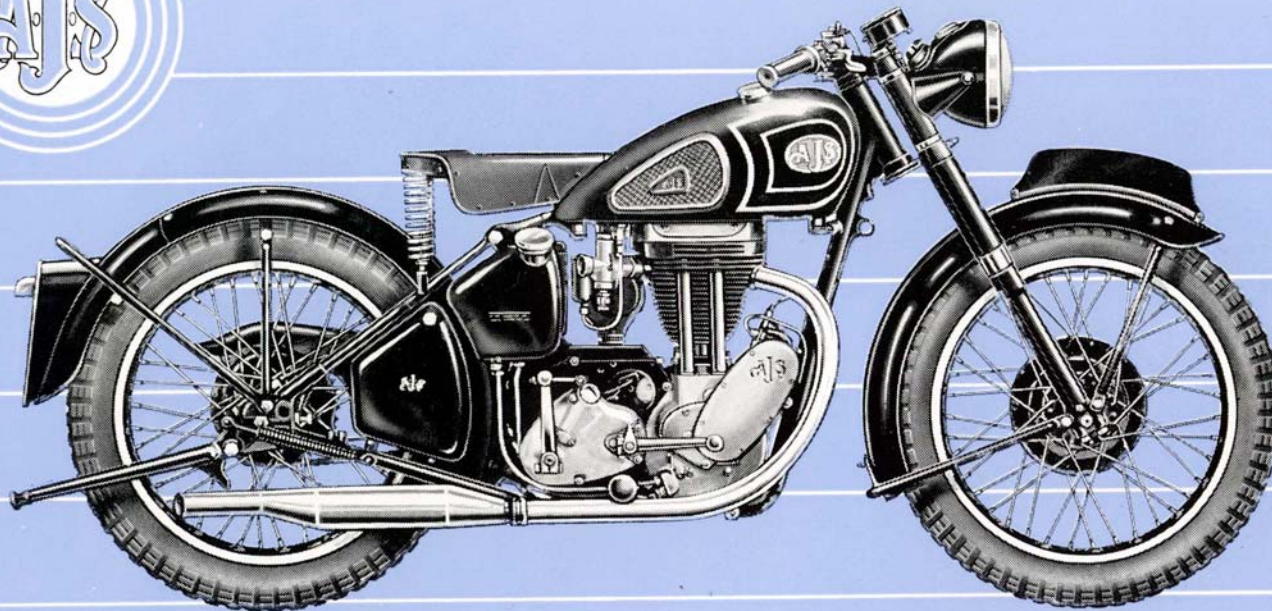
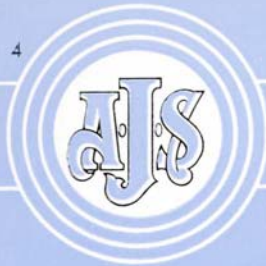
The Springtwin

MODEL 20

498 c.c. O.H.V. VERTICAL TWIN WITH FULL 'TELEDRAULIC' SUSPENSION

For full specification see page 10

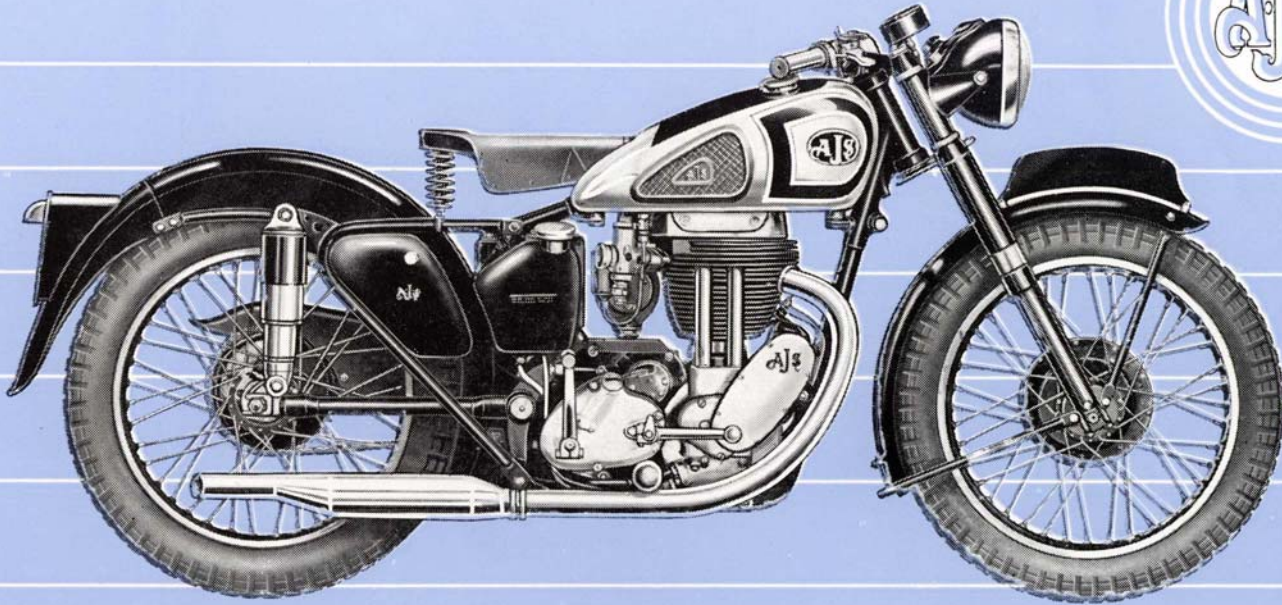
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Model 16M

347 c.c. SINGLE PORT O.H.V. SINGLE CYLINDER

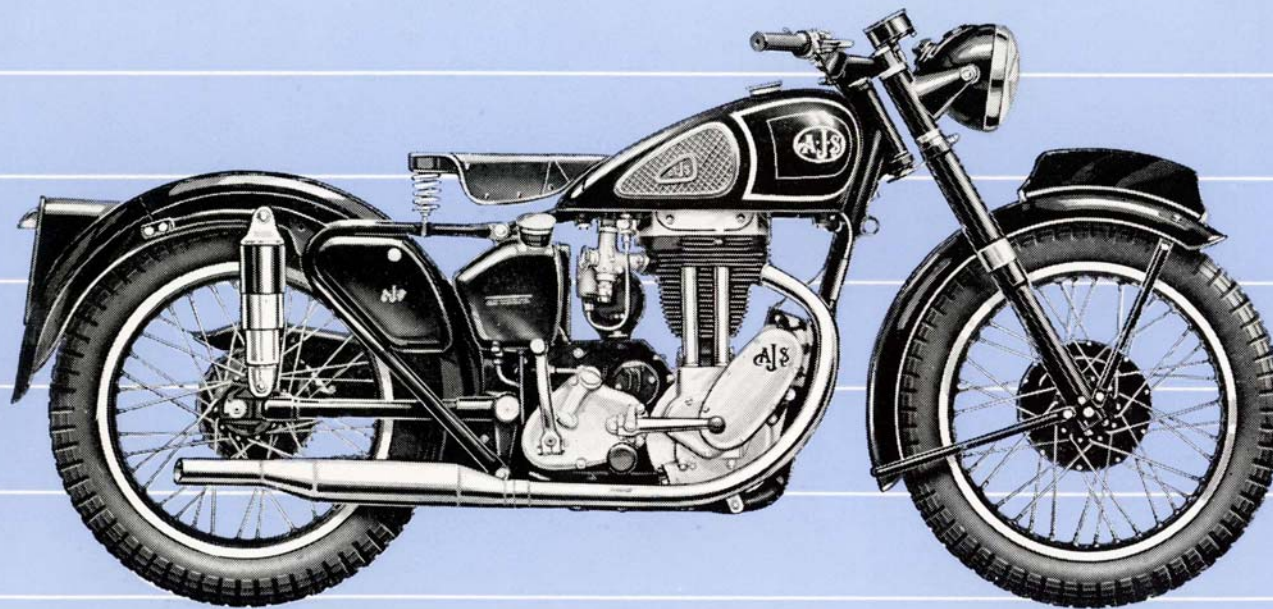
For full specification see page 10



Model 18S

498 c.c. SINGLE PORT O.H.V. SINGLE CYLINDER WITH FULL 'TELEDRAULIC' SUSPENSION

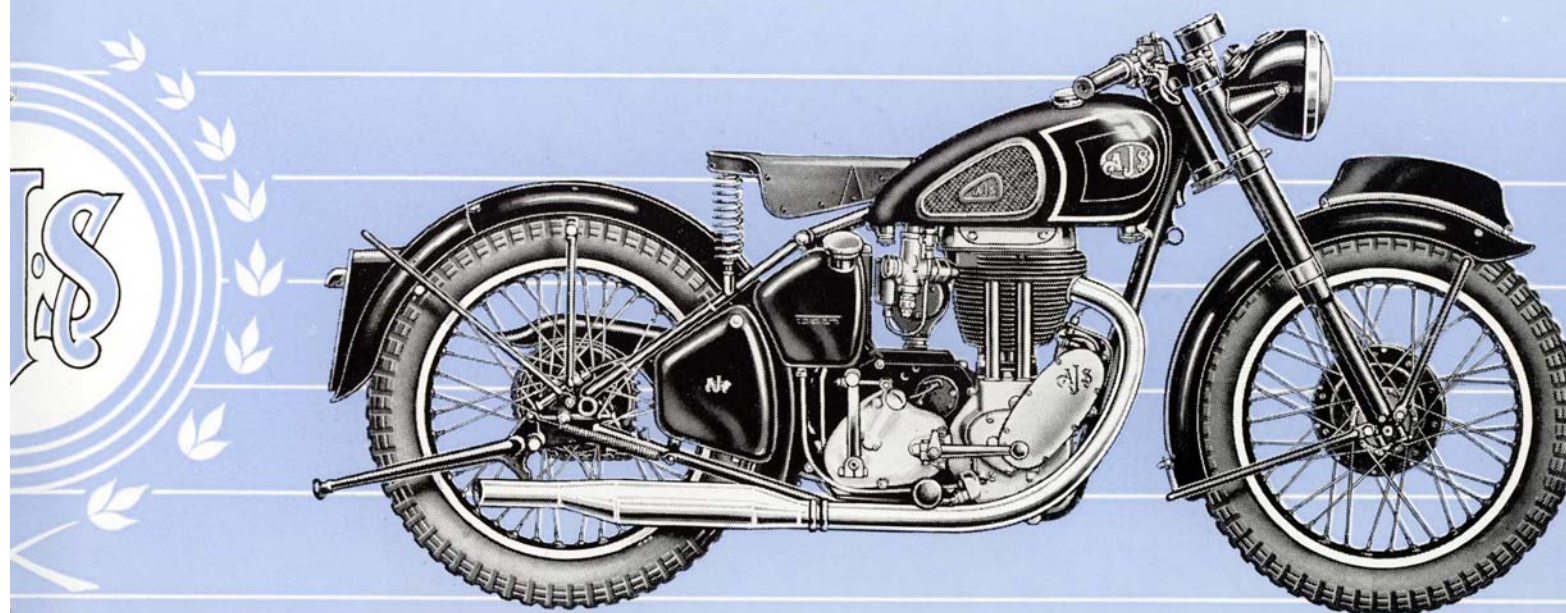
For full specification see page 10



Model 16 MS

347 c.c. SINGLE PORT O.H.V. SINGLE CYLINDER WITH FULL 'TELEDRAULIC' SUSPENSION

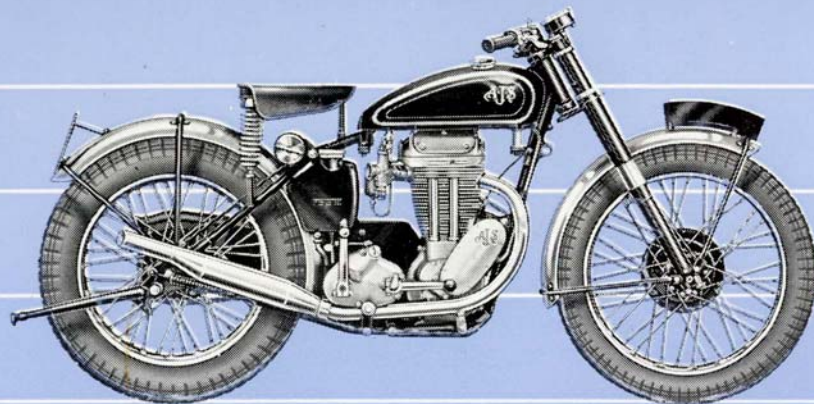
For full specification see page 10



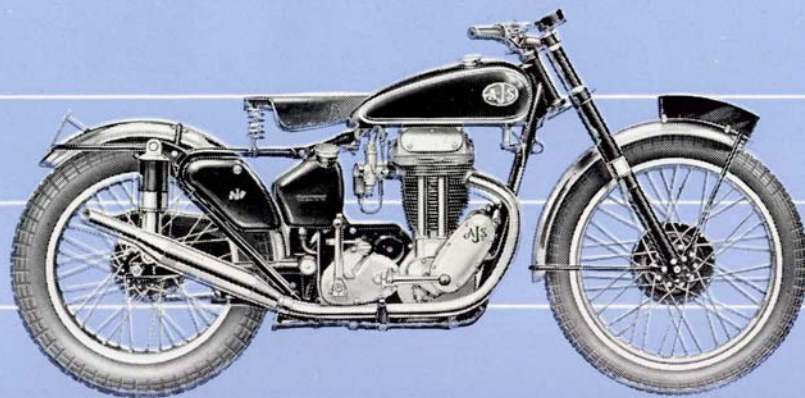
Model 18

498 c.c. SINGLE PORT O.H.V. SINGLE CYLINDER

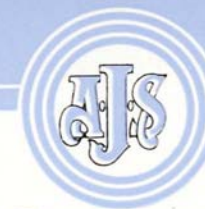
For full specification see page 10



Models 16 MC 347 c.c. O.H.V.
18 C 498 c.c. O.H.V.



Models 16 MCS 347 c.c. O.H.V.
18 CS 498 c.c. O.H.V.



Competition Models

SPECIFICATION

The outstandingly successful A.J.S. Competition Models 16MC and 18C are supplemented for the 1951 season by the addition of the Models 16MCS and 18CS. These two new models are fitted with specially strengthened frames incorporating full Teledraulic suspension and designed for successful participation in high speed cross country events.

The Competition Models differ from the specification published on page 10 in the following respects : High ground clearance, 53" wheelbase rigid frames, 3.00" x 21" front and 4.00" x 19" rear wheels, polished L.A. mudguards, 21 gallon fuel tank, heavily finned L.A. cylinder and cylinder head, cylinder head retained by through bolts from crankcase, crankcase shield, internally mounted footrests, folding kick-starter, racing type magneto etc. B.A. type gear box on Spring Frame Models.

OPTIONAL EQUIPMENT

Standard or wide ratio gears, standard rear wheel, 3 gallon fuel tank.

OPTIONAL EXTRAS

Competition tyres, high compression piston, racing cams, exhaust pipe extension, electrical equipment.



Model 7R

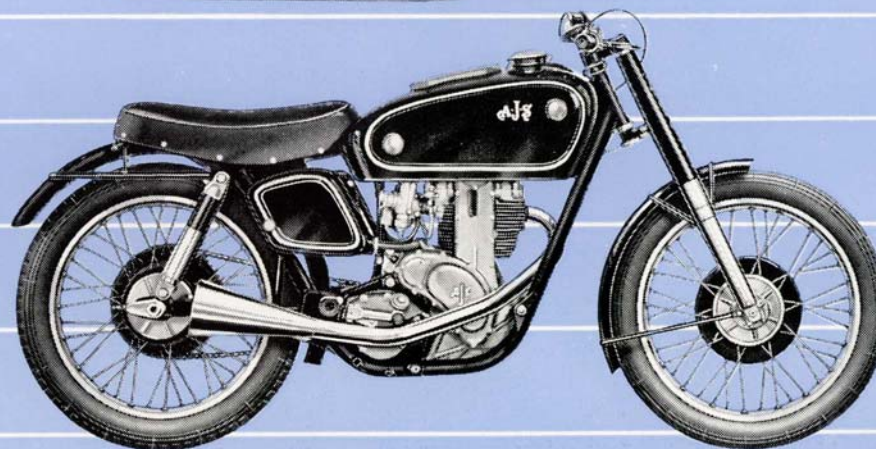
SPECIFICATION

The Model 7R has been designed for participation in International Races under F.I.M. regulations, and in this connection it has been outstandingly successful. Many modifications and improvements have been made since this model was first introduced, and the number of machines of this type entered in important Road Races is the best possible indication of the model 7R's efficiency and popularity.

348 c.c. O.H.C. Single-cylinder. 74 m.m. bore x 81 m.m. stroke; Magnesium alloy crankcase, timing case, rocker box etc., L.A. Cylinder head with shrunk in bronze exhaust valve seat and iron inlet valve seat, chain driven camshaft, duplex overlapping hairpin valve springs, eccentric spindle valve adjustment, twin gear type oil pumps circulating 26 gallons per hour at 7,000 R.P.M.; duplex cradle frame of welded construction with full front and rear Teledraulic oil damped suspension, L.A. tanks, L.A. wheel rims, 21" x 3.00" front and 20" x 3.25" rear tyres; 8" brakes, T.T. close ratio 4-speed gear box, Smith rev. counter, Total weight 298 lbs.

Supplied with 9:1 compression ratio piston for use on 80 octane International fuel. 11:1 and 13:1 compression ratio pistons available for 50/50 Petrol Benzol and Alcohol fuels if required.

All engines are fully bench tested and ready for immediate racing.



Model 7R

347 c.c. O.H.C. FULL 'TELEDRAULIC' SUSPENSION
Supplied ready for immediate Racing in International Events

GENERAL SPECIFICATION

ALL MODELS

ENGINE — Single Cylinder.

Bore	69.0 m.m. x Stroke 93 m.m.	Capacity 347 c.c.
Bore	82.5 m.m. x Stroke 93 m.m.	Capacity 498 c.c.

High efficiency single port O.H.V. all moving parts totally enclosed and positively lubricated, robust flywheel assembly incorporating triple row Duralumin caged roller big end bearing and two-piece crankpin supported by twin ball races on drive side, and plain bronze bearing on timing side, heavily finned L.A. cylinder head with cast in valve seats, tipped valves, duplex hairpin valve springs, non-slap wire wound piston, dry sump lubrication, duplex plunger oil pump, Lucas magneto chain-driven from inlet cam wheel, separate dynamo chain-driven from driving side mainshaft, Amal semi-automatic carburettor.

ENGINE — Model 20 "SPRINGTWIN." One piece fully balanced 3 bearing crankshaft, spherical crankcase with separate centre bearing support, separate L.A. cylinder heads and cast iron cylinders. Overhead valves operated by twin camshafts through Duralumin push rods and rockers mounted on integral rocker posts, eccentric rocker spindle valve adjustment, forged L.A. connecting rods, wire wound pistons, Vandervell centre main and big end bearings, full dry sump lubrication, twin gear oil pumps, detachable fabric filters in crankcase and oil tank, gear driven flange mounted magneto and dynamo, single semi-automatic Amal carburettor.

FRAME — RIGID. Heavy gauge duplex cradle with malleable lugs and forged fork ends. Integral sidecar and pillion footrest lugs. Front, rear and prop stands.

FRAME — SPRING. As above, but with swinging arm, full Teledraulic rear suspension, self-lubricating pivot bearing, rubber bush spring unit bearings and integral pillion footrest lugs, centre, prop and front stands.

GEAR BOX. Four-speed heavyweight, re-designed multi-plate clutch, oil lubrication, enclosed positive stop foot operated gear operation.

FORKS. Patented Teledraulic with improved oil damping.

BRAKES. 7" Internal expanding with cast drums and finger and shim adjustments.

WHEELS AND TYRES. Adjustable taper roller bearings, fabricated steel hubs, heavy gauge spokes, triple stud 3.25" x 19" Dunlop Tyres on 350 c.c. Models. Triple stud 3.25" x 19" Front and 3.50" x 19" rear on 500 c.c. Models.

HANDLEBARS. Fully adjustable sports type. Integral clutch and ignition and front brake and air controls, twist grip throttle control, headlamp dipper switch and horn button.

TANKS. Both of welded steel construction and fitted with leak-proof quick action filler caps. Fuel tanks fitted with twin filter taps and oil tanks with detachable fabric filters. Oil tank capacity 4 pints. Fuel tank capacity 3 gallons single cylinder and 4 gallons "Springtwin."

MUDGUARDS. Ribbed steel of deep section with tubular stays. Valanced rear guard on Spring Frame and "Springtwin" Models.

SADDLE. Large spring seat with semi roll back and adjustable three point mounting.

TRANSMISSION. Primary chain and engine shaft shock absorber enclosed in oil bath case. Rear chain protected by efficient deep guard.

ELECTRICAL EQUIPMENT. Large diameter headlamp with domed fluted glass, high frequency electric horn, voltage control unit, chromium plated car-type rear lamp.

FINISH. Three thicknesses of best quality black stoved enamel after Bonderizing. Handlebars, exhaust system, wheel rims heavily chromium plated. Chromium plated petrol tanks optional export extra.

EQUIPMENT. Tool kit complete with tyre pump and grease gun. Illuminated speedometer and instruction Manual. See page 11 and Spares Book for List of Optional Equipment.



G U A R A N T E E



NOTICE

We do not appoint agents for the sale on our behalf of our motorcycles 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 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 (a) which have been used for "hiring-out" purposes, or (b) any motorcycle 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 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 parts 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 a 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 us, or to a motorcycle which is not designed for such use

Any motorcycle, 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 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 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, electrical equipment, lamps, etc., or any component parts supplied to the order of the purchaser differing from standard specification, supplied with our motorcycles, motorcycle combinations, sidecars or otherwise.

LIST OF OPTIONAL EQUIPMENT

Detachable Luggage Carrier. Mudguard type Pillion Seat. Folding Pillion Footrests. Air-cleaner. Luggage Panniers.

THE A.J.S. FREE SERVICE SCHEME

It is strongly recommended that owners of new A.J.S. Motorcycles should avail themselves of the free Service Scheme operated by all official Dealers, full details of which are given on the card supplied with each machine.

NOTICE

All prices and specifications are subject to alteration without notice and all motorcycles and equipment are sold subject to the limited guarantee printed herein.

