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A.J.S.

50

## Quality Motor Cycles

*Produced by Motorcyclists for Motorcyclists*

**F**OR many years A.J.S. motorcycles have participated in the majority of International Races and Competitions, and the frequent successes achieved serve to indicate the outstanding excellence of A.J.S. design and manufacture.

Continued success would be impossible without steady progress in design, and as the events in which A.J.S. compete are regarded as a Laboratory for the betterment of the standard models, it is not surprising that A.J.S. motorcycles to-day enjoy an unsurpassed reputation for quality and performance throughout the world.

*Winners of the 1949 500 c.c. class Road Race Championship of the World*

*The only motorcycle in the World to have covered over 500 miles in 5 hours*

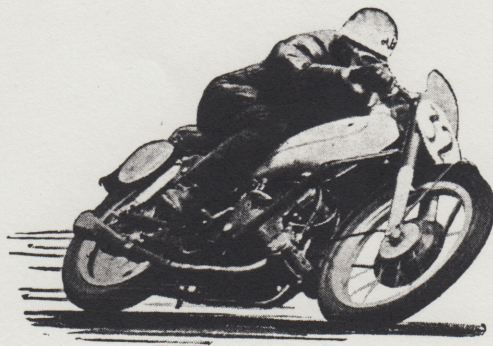
### A.J.S. MOTOR CYCLES

(Proprietors: ASSOCIATED MOTOR CYCLES LTD.)

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

Telephone: WOOLwich 1223

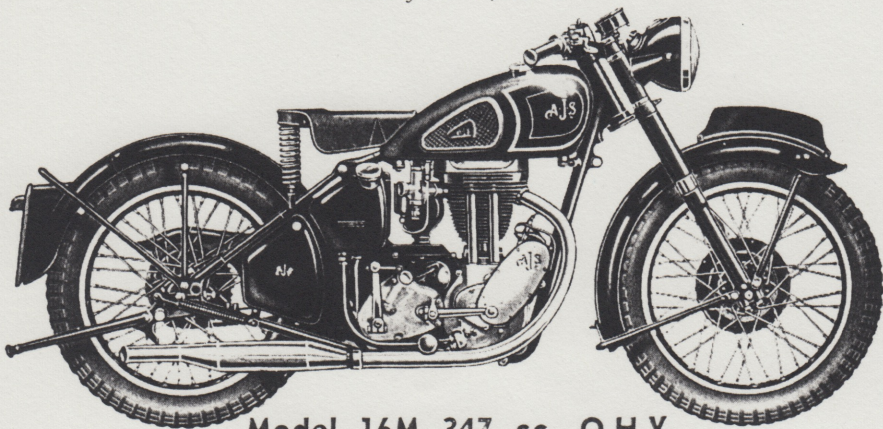
Telegrams: ICANHOPIT WOL LONDON



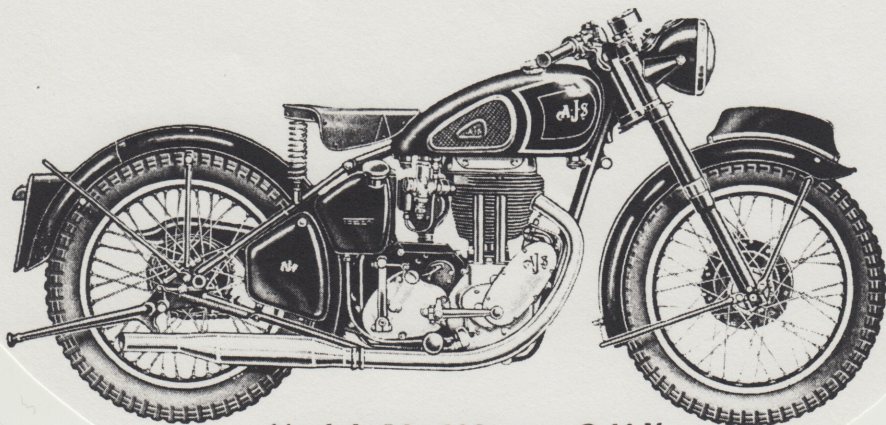
# Models 16 M & 18

347 c.c. O.H.V. • 498 c.c. O.H.V.

*A.J.S. Motor Cycles hold all 500 c.c., 750 c.c. and 1,000 c.c. World's  
Records from 2-5 hours*



Model 16M 347 cc. O.H.V.

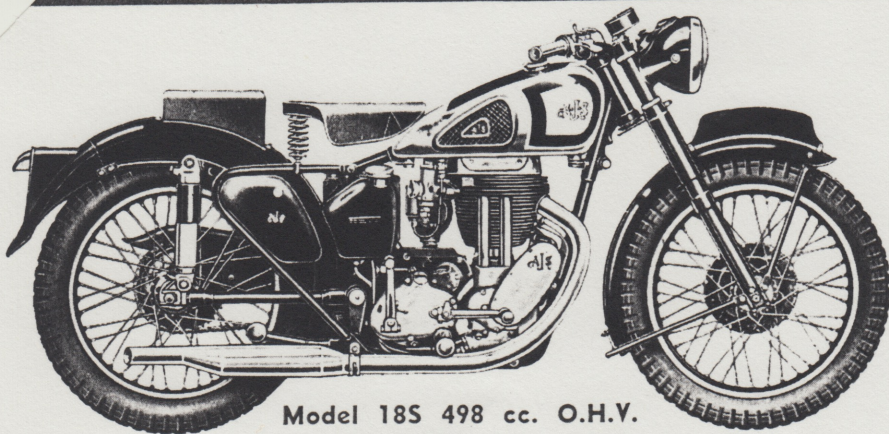


Model 18 498 cc. O.H.V.



# Models 16 MS & 18 S

347 c.c. O.H.V. • 498 c.c. O.H.V.



## Model 18S 498 cc. O.H.V.

### SPECIFICATION

#### ALL SINGLE CYLINDER MODELS

**ENGINE.** 350 cc. Models: 69 mm. bore x 93mm. stroke, 347 cc. capacity; 500 cc. Models: 82.5 mm. bore x 93 mm. stroke, 498 cc. capacity. High efficiency O.H.V. single port type. Totally enclosed pushrod operated valves. Two-piece crankpin and three-row caged big end bearing, Duplex hairpin valve springs, dry sump lubrication with positive oiling to all moving parts, twin ball race drive side main bearings, plain Phosphor Bronze on timing side, low clearance wire wound piston.

**GEAR BOX.** Pivot mounted heavyweight 4-speed. Fully adjustable kick-starter and gear lever with enclosed operating mechanism. Positive stop gear change, multi-plate clutch with handlebar control.

**CARBURETTOR.** Semi-automatic Amal operated by twist grip throttle control and separate air lever.

**FORKS.** Improved Teledraulic with full oil damping and long movement 3-rate springs.

**FRAME.** Full rear suspension of swinging arm type.

Large diameter self-lubricating pivot bearing, forged fork ends, Teledraulic oil damped spring units, pillion footrest and sidecar lugs. Front, prop and centre stands.

**WHEELS AND BRAKES.** 350 cc. models: 3.25" x 19" Front and Rear with Dunlop tyres; 500 cc. models: 3.25" 19" Front and 3.50" x 19" Rear with Dunlop tyres. Fully adjustable taper roller bearings, 7" dia. internal expanding brakes, finger and internal adjustment, Chromidium brake drums.

**TANKS.** 3-gallon welded steel petrol tank and  $\frac{1}{2}$ -gallon oil tank of similar construction with detachable fabric filter. Quick action filler caps, filter petrol taps with reserve position.

**SADDLE.** Large size spring seat with fully adjustable three-point mounting.

**TRANSMISSION.** Primary chain and engine shaft shock absorber totally enclosed in oil bath case. Rear chain protected by deep section steel guard.

**MUDGUARDS.** Efficient new design of deep section with central rib and tubular stays.

**IGNITION.** Lucas magneto with oil bath chain drive.

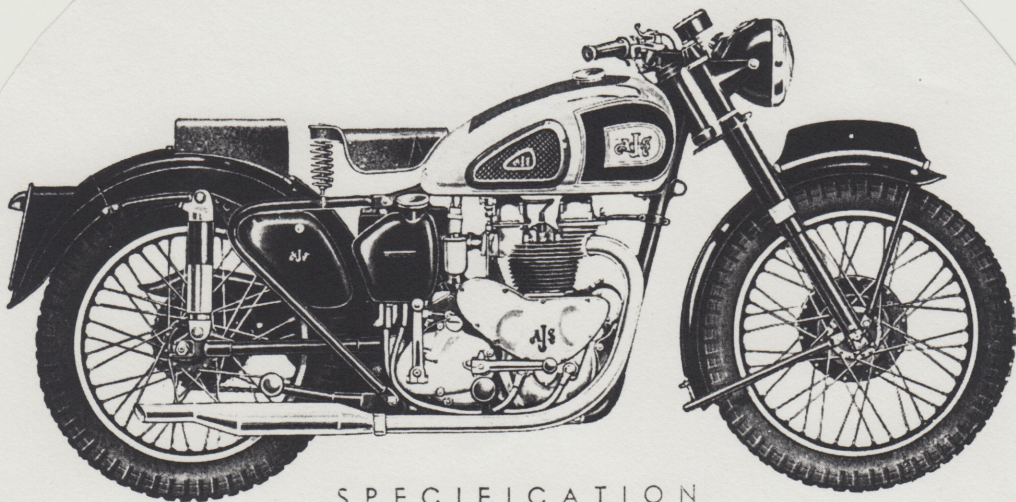
**ELECTRICAL EQUIPMENT.** High output chain-driven separate Dynamo, 7 $\frac{1}{2}$ " wide beam headlamp, car type chromium plated rear lamp, voltage control unit, electric horn and centrally mounted battery.

**FINISH.** Three thicknesses of best quality stove enamel on Bonderised surface. Petrol tank hand-lined in gold. Wheel rims, handlebars, controls and exhaust system, etc., heavily chromium plated.

**EQUIPMENT.** Full tool kit with grease gun, tyre pump, speedometer and comprehensive Instruction Book.



# The **SPRINGTWIN** VERTICAL TWIN 498 c.c. O.H.V.



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

**ENGINE.** 66 mm. bore, 72.8 mm. stroke. 498 cc. capacity. High efficiency O.H.V. Vertical Twin, separate L.A. cylinder heads with cast in valve seats, Duralumin push rods, eccentric spindle rocker adjustment, three bearing crankshaft supported by roller outer bearings and plain centre main. L.A. forged connecting rods, Vandervell big end bearings, dry sump lubrication with positive feed to all moving parts, wire wound pistons, rotary crankcase pressure release valve, detachable fabric filter in crankcase.

**GENERATOR.** 45 watt output, gear-driven from timing case. Very accessible and quickly detachable.

**IGNITION.** Gear driven, flange mounted, Lucas magneto.

**PETROL TANK.** 4-gallon welded steel with 4-point mounting and recessed knee grips. Heavily chromium plated with cut-away black panels and blue lined silver A.J.S. transfer.

(Remaining specification as for Model 185)

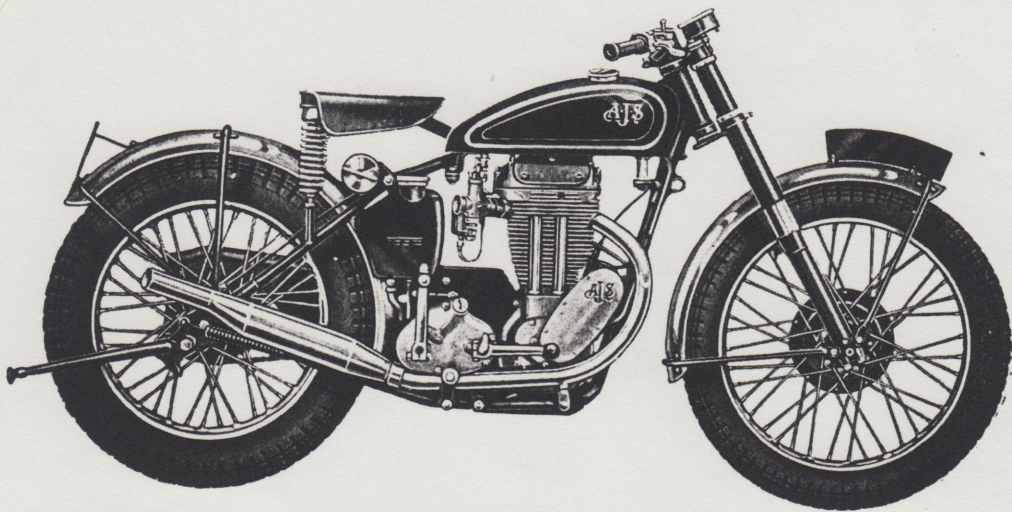
*Designed with the object of providing an outstanding performance and standard of roadholding, irrespective of road or climatic conditions, the Spring Twin A.J.S. has met with a brilliant reception since its introduction at the Earls Court Exhibition in 1948 and undoubtedly represents the ultimate in motorcycle design.*



## COMPETITION MODELS

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

*Seven times members of the British Trophy Team International Six Days' Trial, and winners of the 1947, 1948 and 1949 Scottish Six Days' Trial*



The 1950 A.J.S. Competition Models are identical in all essential respects to the machine that has proved so outstandingly successful in the hands of Hugh Viney during the past two seasons. As the number of these special models that we are able to manufacture is very limited, all intending purchasers are requested to submit full details of their Competition intentions when making application for a model of this type.

Short wheelbase high ground clearance frame, special saddle and footrest mounting for maximum wheel grip. Light alloy cylinder and cylinder head with centrifugal cast iron liner, wide ratio gear box, 19" x 4.00" rear wheel with 21" x 3.00" front, upswept exhaust system, undershield, 2½-gallon petrol tank, racing type magneto, polished light alloy mudguards, folding kickstarter, K.E.805 rear spindle, security bolts.

**OPTIONAL EQUIPMENT:** Standard gear ratios, electric lighting, 3-gallon petrol tank, standard rear wheel.

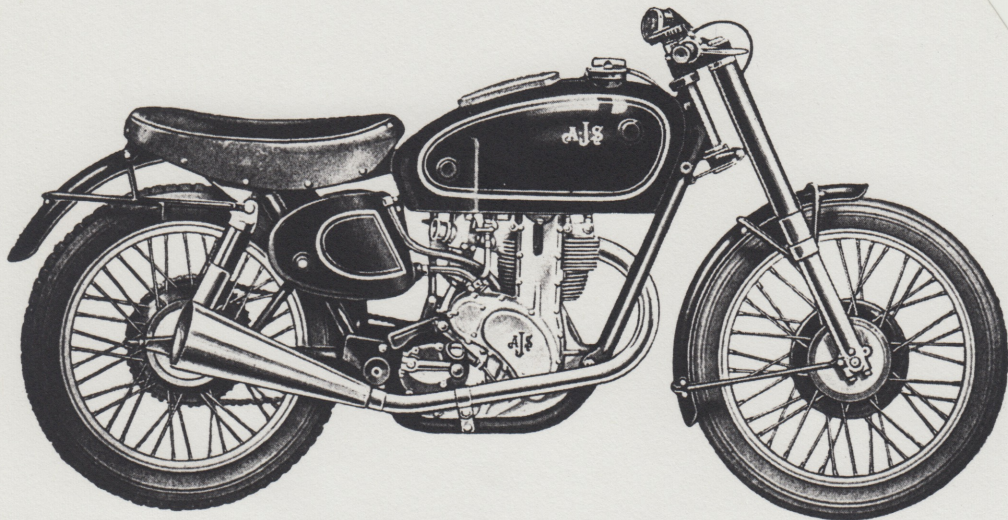
The above are the major deviations from the normal single cylinder specification.



# MODEL 7 R

348 c.c. O.H.C.

*Winners of 6 I.O.M. T.T. Races and innumerable International Grand Prix*



Designed with the object of providing the enthusiastic private owner with a highly efficient racing motorcycle conforming to the requirements of International events held under F.I.C.M. regulations, the Model 7R has proved outstandingly successful.

348 cc. Single cylinder, 74 mm. bore x 81 mm. stroke, L.A. cylinder head and barrel with totally enclosed valve gear operated by chain-driven camshaft and Duplex hairpin valve springs. Twin gear type oil pumps circulating 26 gallons per hour at 7000 r.p.m. Magnesium alloy crankcase, timing case, rocker box, wheel hubs, etc. Teledraulic front and rear suspension, double leading shoe brakes, L.A. mudguards, fuel and oil tanks, welded steel Duplex cradle frame, L.A. wheel rims and straight spoke wheels, T.T. Amal carburettor with remote float chamber, gear-driven magneto, 20" x 3.25" rear, 21" x 3.00" front tyre. Smith's rev. counter. Weight 298 lbs.

Pistons for use with 50/50 Petrol Bensol or Alcohol fuels are available if required.  
All engines are fully bench tested and supplied ready for immediate racing.



# Guarantee

**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 **AT THE RISK OF THE OWNER**, and this guarantee and any implied guarantee, warranty or condition shall 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 a 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.

## 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.