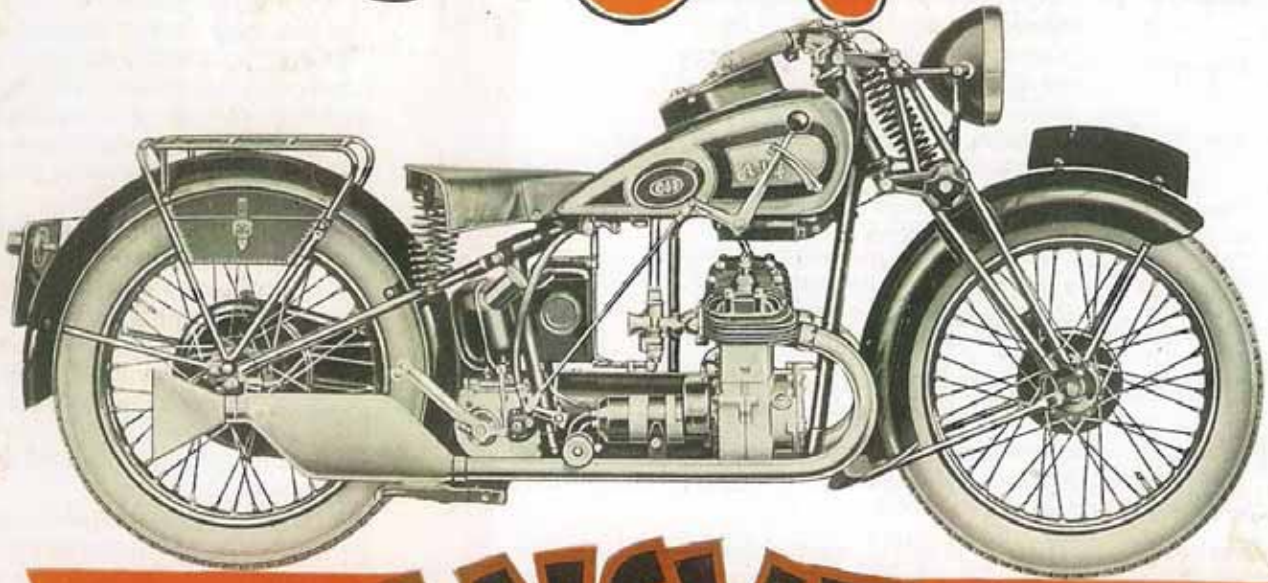


# A.J.S.



## TRANSVERSE TWIN



### MODEL S.3

A.J. STEVENS & CO. (1914) LTD. WOLVERHAMPTON



AJS

### BRIEF SPECIFICATION.

- Engine.** A. J. S. Design and Manufacture. Twin Cylinder. Side Valve. Four Stroke. (Cylinder set at 50 degrees). 65 x 75 m.m. Bore and Stroke. 496 c.c. capacity. Chain driven camshafts with patent tensioning device. Car type detachable cylinder head. Aluminium pistons. Ball bearing main shafts. Connecting rods mounted side by side. Big ends fitted with roller bearings.
- Lubrication.** Automatic. Force feed to big ends by mechanical pump.
- Frame.** Cradle type of exceptionally sturdy construction. Duplex tubing.
- Gearbox.** Three speed countershaft. Shaft drive from engine incorporating two self-centering fabric couplings.
- Ratios.** 5.00, 7.93, 13.58 to 1.
- Clutch.** Multiple plate. Hand controlled.
- Footstarter.** Mechanism entirely enclosed.
- Rear Wheel.** A.J.S. Patent Quick Detachable.
- Tyres.** 26" x 3.25" wired-on Avon heavy non-skid.
- Hubs.** Taper Roller Bearings.
- Carburettor.** Amal, with Twist Grip Control.

- EASY STARTING.**
- SMOOTH RUNNING.**
- SILENCE.**
- FLEXIBILITY.**
- ACCESSIBILITY.**

This Model can be obtained on the Hire Purchase System.

### INTRODU

**T**HE A.J.S. Transverse Twin model s  
It possesses every desirable quality s  
Accessibility, Rapid and Effortless A  
together with Perfect Steering and Road H  
The engine is set across the frame, and as  
are in an unobstructed and equal air stre  
perfectly cooled. No multi-cylinder en  
that all cylinders run at the same tempera  
plays an important part in securing slow  
all speeds.

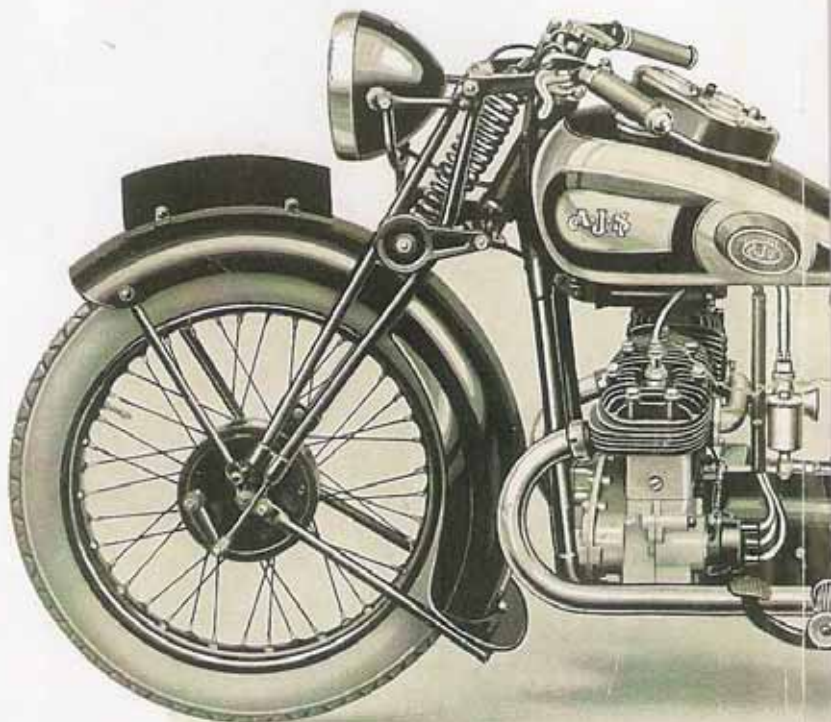
The primary drive is by a totally enclosed  
on flexible self-centering couplings which  
mitted to either engine or gear box bear  
silent in operation and does away entire  
adjustment, lubrication or attention what  
This "in line" drive is converted into a ri  
gears in the gear box, which are silent an  
Final drive is by a totally enclosed chain  
The ease of starting by the usual foot p  
appreciated.

A scientifically designed frame of dupl  
greater part of the weight of the engine, g  
this gives a very low centre of gravity, co  
the machine are irreproachable at all spe  
Ignition and light are supplied by separa  
from an instrument panel on the top of t  
Adequate mud-guarding is provided, an  
wheel removal.

The whole lay-out is compact, every par  
manship, performance and appearance it v  
of its makers.

As a motorcycle it has a fascination about  
experience on the road. It possesses just  
it in a class

AJS



DEPOSIT £16 : 5 : 0 12 MONTH



## FACTORY.

strikes a new note in motorcycle design. Such as Easy Starting, Silence, Flexibility, Acceleration with a High Average Speed, Folding Qualities.

The cylinders project on either side, they are of equal diameter, consequently both are equally and efficiently cooled, with cylinders in line can claim a uniform temperature. This matter of equal temperature running and a smooth flow of power at

each end of the propeller shaft, mounted at each end to ensure that no strain or load is transmitted. This primary drive is absolutely independent of the front chain, and requires no maintenance.

Right angle drive by means of spiral bevel gears, which are indefinitely wear resisting.

Access to a quickly detachable rear wheel. The rear wheel has to be experienced to be fully

flexible. The steering tubes is incorporated and, as the steering head, etc., is below the wheel centres, consequently the steering and stability of the machine is improved.

The dynamo, battery and coil, controlled by a switch, are mounted on the chromium plated petrol tank.

The rear guard is hinged for easy

access. It is readily accessible, and in work-conditions will add more than to the high reputation

of the machine which can only be realised by actual experience. That "something different" which places it above the rest.

## SPECIFICATION—Continued.

<b>Handlebars.</b>	New type with Integral Controls and Steering Damper.
<b>Footrests.</b>	Adjustable, 4 in. horizontal and 4 in. vertical.
<b>Brakes.</b>	Internal Expanding Front and Rear, finger adjustment.
<b>Transmission.</b>	Shaft drive from engine to gearbox. Chain from gearbox to back wheel. $\frac{1}{2}$ " pitch by .305" width.
<b>Ignition.</b>	Lucas Coil and Distributor.
<b>Saddle.</b>	Adjustable. Height from ground 26 inches.
<b>Dynamo.</b>	Mounted on brackets on the right-hand side of the machine, driven by quickly adjustable endless belt.
<b>Distributor.</b>	Mounted direct to crankcase on left-hand side of machine. Both Dynamo and Distributor are readily accessible.
<b>Accumulator.</b>	Carried on seat pillar down tube.
<b>Stand.</b>	Central, Spring-up.
<b>Carrier.</b>	Fitted with two pannier bags. Quickly detachable.
<b>Wheel Base.</b>	56 in.
<b>Petrol Tank.</b>	Capacity 3 gallons.
<b>Oil Tank.</b>	Capacity $\frac{1}{2}$ gallon.
<b>Weight.</b>	330 lbs.

# £65

**Including Electric Lighting, Horn, and Instrument Panel.**

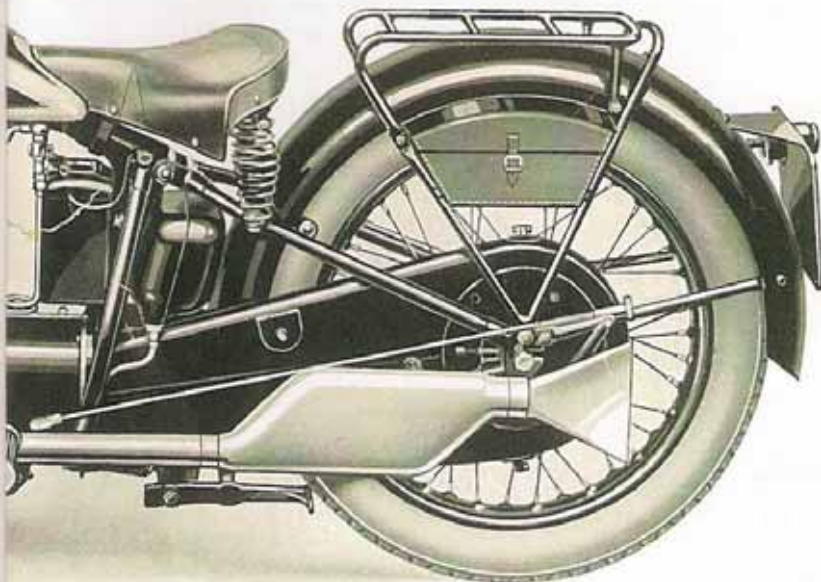
Extra for Speedometer (Non-Trip) ... £2 : 0 : 0

Extra for Speedometer (Trip) ... £2 : 5 : 0

Extra for Clock ... £1 : 10 : 0

*(We reserve the right to modify or deviate from the above Specification and Prices without notice).*

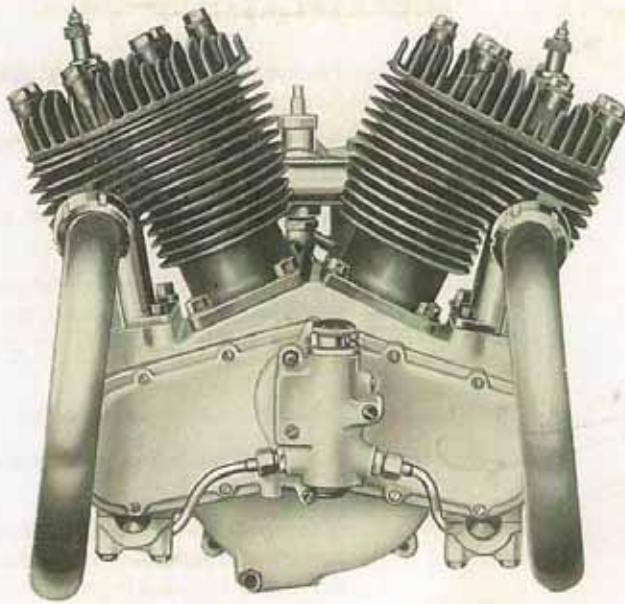
**All Prices include Carriage Paid per Passenger Train at Our Own Risk to any Station in the United Kingdom.**



**MONTHLY INSTALMENTS £4 : 9 : 5**



AJS



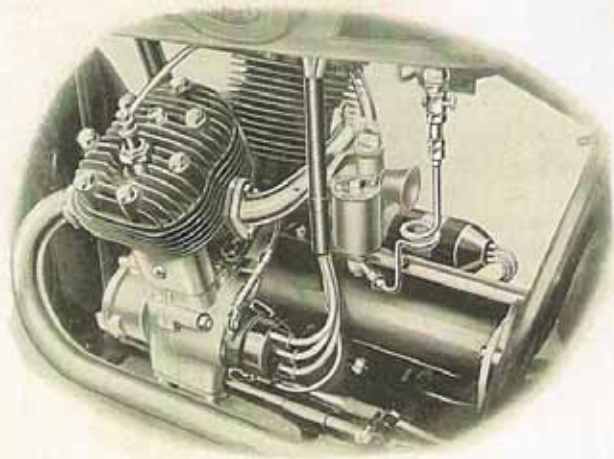
The A.J.S. Transverse Twin Engine.

### THE ENGINE.

The engine, although unique in general design, has nothing freakish in its construction. It is built on car lines with the valves hot on the cylinder block. The detachable cylinder heads are of aluminium, and can be removed in a few minutes for decarbonising and valve grinding. The camshafts are driven by chains with patent tensioning device, and all valve gear is totally enclosed but readily accessible for inspection or adjustment. The roller bearing connecting rods are mounted side by side, and the main shafts are carried on ball bearings which are subjected to no driving load as is the case with the primary chain drive.

### DYNAMO AND DISTRIBUTOR MOUNTING.

This illustration shows the mounting of the distributor and dynamo, which, as can be seen, are particularly accessible. The distributor is driven by the camshaft, and the dynamo is driven by a quickly adjustable endless flat belt which is noiseless, and by its nature cannot damage the dynamo in case of a back-fire or violent acceleration. The accessible position of the carburettor will also be noted.



The accessible position of the Dynamo, Distributor and Carburettor.

## OUTSTANDING FEATURES.

Easy Starting, Silence, Flexibility, Perfect Steering and Accessibility. Primary drive is silent and requires no adjustment or attention. No driving load on engine bearings. Clutch runs engine speed. Ignition and light from separately driven dynamo.

- TOTALLY ENCLOSED VALVES AND VALVE GEAR.
- CAR TYPE DETACHABLE CYLINDER HEAD.
- PERFECT COOLING.
- COIL IGNITION.

- PATENT CHAIN DRIVEN CAMSHAFTS.
- SHAFT DRIVE TO GEARBOX.
- CENTRAL SPRING-UP STAND.
- AUTOMATIC LUBRICATION.
- DUPLEX TUBULAR FRAME.
- FOOT STARTER.

For Appearance, Performance and the Last Word in Design, this new "Transverse Twin" is a motorcycle of which the owner can be justly proud.

**A. J. STEVENS & CO. (1914) Ltd., WOLVERHAMPTON.**

Telephone:  
1731 (seven lines).

Codes:  
A.B.C. 5th & 6th EDITIONS.  
BENTLEY'S.  
MARCONI INTERNATIONAL.

Telegrams:  
"HOPIT, WOLVERHAMPTON."