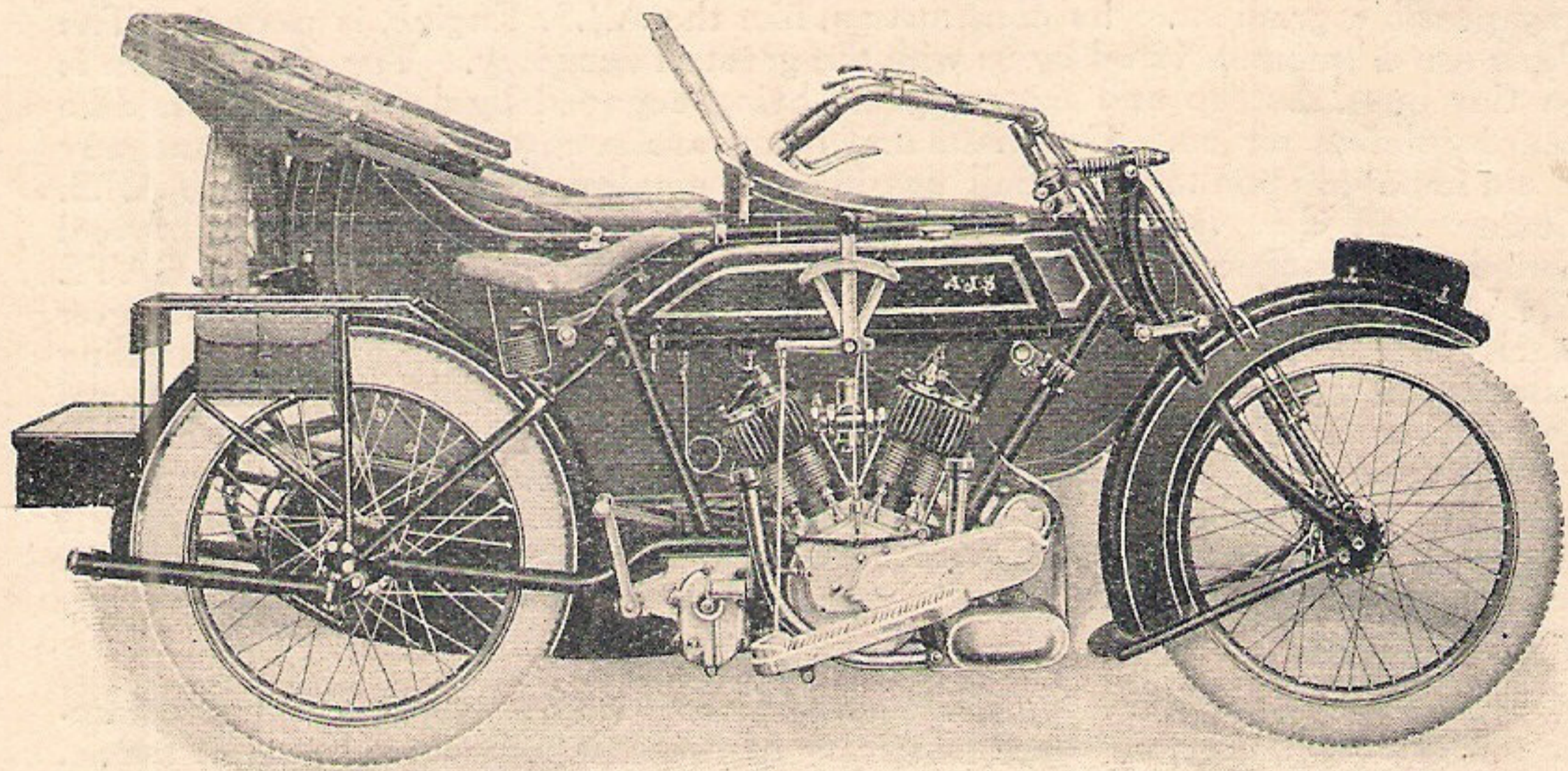


A.J.S.



Motor Cycles

◦ 1920 ◦

MANUFACTURED THROUGHOUT

BY

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

Head Offices : GRAISELEY HOUSE.

Works : GRAISELEY HILL.

WOLVERHAMPTON,

ENGLAND.

TELEPHONE :
1166 (3 lines).

TELEGRAMS :
"Hopit, Wolverhampton."

CODE :
A.B.C. 5th Edn.
Marconi International.

Brief Description of the **A.J.S.** Features.

The 6 h.p. A.J.S. Combination is designed throughout to withstand the most strenuous work, and can be relied upon to fulfil any requirement made of it.

The Engine.

This is made entirely in our own Works, is distinguished for POWER, FLEXIBILITY, SILENCE, AND ABSENCE OF VIBRATION. It stands as a masterpiece of British engineering skill and thoroughness.

The Three-Speed Countershaft Gear.

In conjunction with the power unit, this provides a means of surmounting any possible gradient. Its construction, like the A.J.S. Engine, is perfect. The Parts are all manufactured by us with the greatest accuracy. The construction is on Car lines, the top and bottom gears being engaged by dogs, and the middle gear by sliding pinion. The shafts and gears are robust, and will withstand any strain imposed upon them. Ball bearings are employed throughout. The A.J.S. Countershaft Gear is fashioned to allow the rider to forget its existence, beyond periodical lubrication. The operation of the gears is by our PATENT GATE CHANGE, which provides an automatic stop for each gear. The Kick-Starter mechanism is entirely enclosed, the Pedal alone being the only part protruding externally. It thus works under ideal conditions. The Pedal occupies a natural and comfortable position for the foot on the Right side of the machine, and provides exceptionally easy starting of the Engine. The Clutch is hand-controlled from the left handlebar. It is of the multiple plate type, with cork inserts engaging with alternate steel discs. The design is simplicity itself, and its wearing qualities unequalled.

The Frame.

The A.J.S. Frame is not a frame in name only, it is a scientific construction which eradicates all the weaknesses of the usually accepted type of frame. It is built with entirely straight tubing throughout, NO bent tube entering into its construction. It is given a margin of strength which will allow for overloading, without departing from its correct alignment or suffering fractures. The A.J.S. Frame is unbreakable.

Transmission.

Perfect Power Transmission has been associated with the A.J.S. for the past 14 years, and our ideal system still asserts its superiority and proved reliability. The drive from Engine to gear box and thence to back wheel is by chain, which runs under perfect conditions in entirely enclosed and protected weather-proof Cases. Hans Renold chains are employed throughout, and the transmission can be inspected without disturbing the chain cases, or any mechanism.

Internal Expanding Rear Brake.

This Brake provides a means of control unsurpassed by any other make of machine. It gives absolute safety, and whilst it provides a most powerful instrument for emergency usage, it can be employed equally with the greatest delicacy owing to its remarkable sweetness of action. The Brake is operated by Foot Pedal on the left hand side of the machine.

The A.J.S. Quick Detachable & Interchangeable Wheels.

One of the greatest boons incorporated upon the A.J.S. is our Patent Quick Detachable and Interchangeable Wheel System. This provides for instant replacement and interchangeability with any wheel on the outfit, an advantage which will be fully appreciated by every rider. Our system is superior altogether to any other form of detachable wheel, inasmuch as there is no "Dog Drive" with ultimate "Back Lash" after wear; and NO friction or strain. The A.J.S. Detachable Wheel is held in place by three sleeve bolts and a centre pin, and when locked up is absolutely rigid and solid with the driving sprocket. The whole of the transmission, brake shoes, etc., is left in place when the wheel is withdrawn, and in the case of the front wheel, if fitted with our speedometer drive, this fitment is likewise left untouched when this wheel is removed.

A.J.S. Mudguarding.

Particular attention has been directed to this important part of Motor Cycle equipment, and we have no hesitation in saying that for general efficiency and neatness no better will be found on the market. The front guards are of exceptional and generous dimensions. The guard is fitted with widely "flared" side valances, which increase in effective width right down to their base, where

they meet the bottom valance and effectively combat splash from all directions. The guard is built round the fork blades and constitutes a well thought out and workmanlike job. The rear guard is on similar generous lines, being 7 in. wide, and carried well down over the rear wheel.

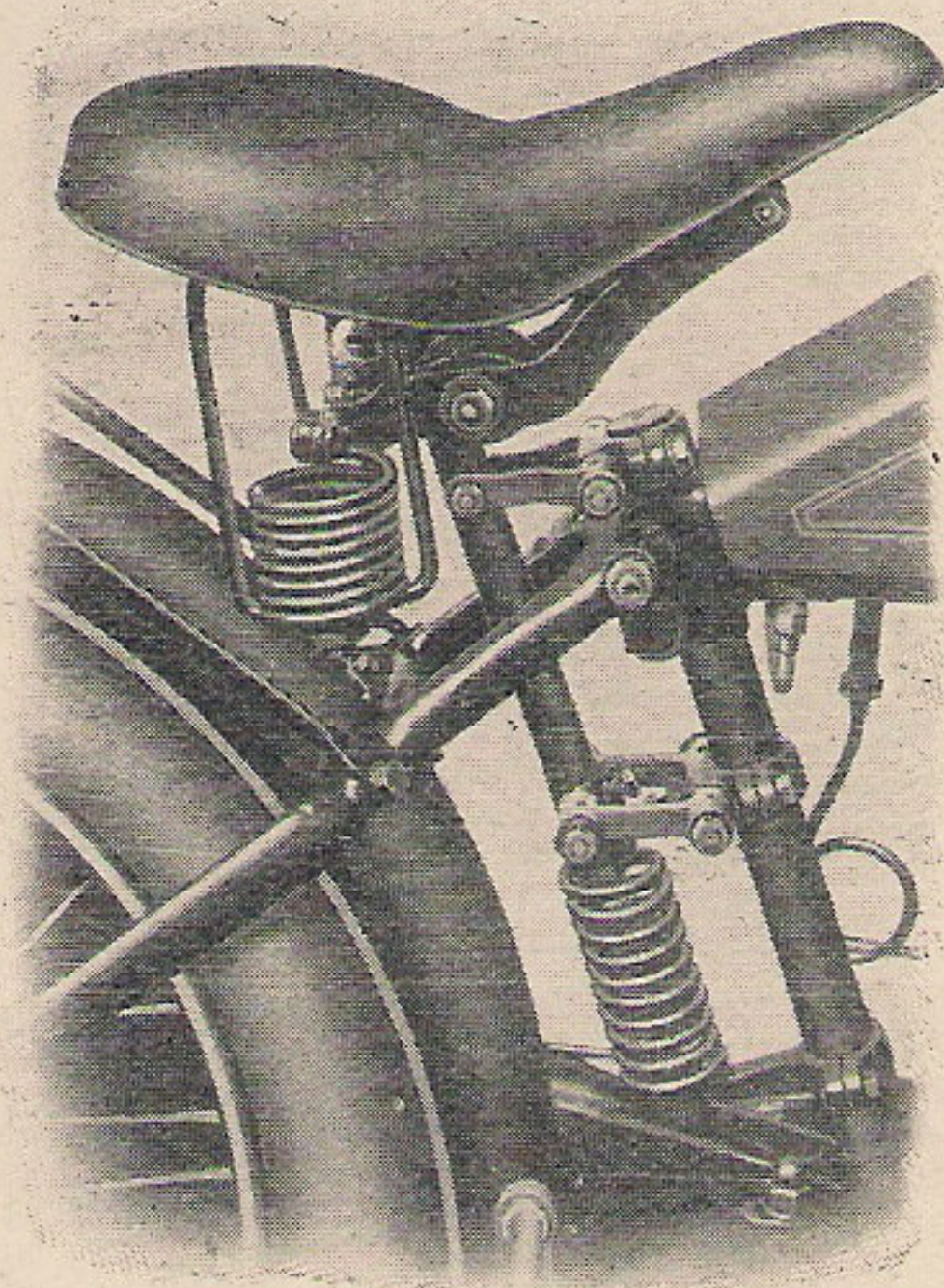
Rear Stand.

An important improvement, and one that will be appreciated by all riders, is our new "**Protected**" Design of Rear Stand. This Stand entirely abolishes the old fatiguing procedure necessary to jack-up the machine. No herculean efforts are now required to haul up the dead weight of the motor cycle, the action being easily performed with the aid of a neat Lever, which is part of the Stand. The Lever is hinged, and when not in use is folded back parallel with the Stand.

There are many other features exclusive to the A.J.S. which space forbids us to chronicle in this brief outline, but we think enough has been said to convince the reader that for those essentials which go to form the fundamentals of pleasurable motor cycling, viz., EFFICIENCY, RELIABILITY, SIMPLICITY, ACCESSIBILITY, and EASE OF CONTROL—

The **A.J.S.** Stands Pre-eminent.

An
exclusive
Feature
of the
A.J.S.



Anti-
Vibratory
Design.

Vertical
Action with
Compensating
Springs.

Spring Seat Pillar.

As will be seen from the illustration this excellent fitment is affixed to the Down Tube of the Frame and affords A.J.S. riders the luxury of the most sensitive DOUBLE SPRINGING action on seats, viz. :—

SWIVEL-TOP SADDLE SPRINGS IN EXTENSION,
AND LARGE PILLAR SPRING IN COMPRESSION—

which each act as a perfect check upon the other, and combined, effect a smoothness of action free of lateral play, with a sense of perfect comfort a wheel absolutely unrivalled by any motor seat on the market. In the case of the ordinary fixed saddle, only the rear is sprung—the peak is rigid. The A.J.S. Seat Pillar overcomes this disadvantage by providing a free vertical movement of the whole saddle.

It is adjustable and affords the lowest position obtainable, glides softly over all road irregularities, entirely eradicates all tendency to bounce and is "LUXURIOUS" in the fullest meaning of the word.

With this device the complication and extra weight of a spring frame is unnecessary.

6 h.p. Three-Speed Passenger Combination

Model D

SPECIFICATION

Motor Cycle.

- ENGINE Twin Cylinder (74 x 87 m/m, Bore and Stroke, 748 c.c. capacity). Cylinders set at 50° Fitted with Detachable Heads. Valves are large, mechanically operated and interchangeable. Adjustable Valve Tappets. Large efficient Silencer.
- CARBURETTER. A.M.A.C. Multiple Jet. Two Lever. Handlebar control.
- FRAME Scientifically constructed. Straight tubes throughout. Absolutely unbreakable. Perfectly balanced.
- TANK New design, Saddle pattern. Supported from below on brazed-on brackets. The upper surface is not traversed by the top frame tube, so can easily be cleaned. The rear end is dropped to permit of a low saddle position. Fitted with Petrol Injectors. Large Fillers for Petrol and Oil. Capacity—Petrol, 2½ gallons; oil, 3 pints.
- LUBRICATION Best & Lloyd, Semi-automatic to Main Bearings and Big Ends of Connecting Rods.
- IGNITION . . . Thomson Bennett Magneto, Model A.C.V., enclosed type. Carried in front of Engine. Driven by chain. Handlebar control. Vernier Timing Adjustment.
- CHAINS. "Hans Renold" extra strong Motor Cycle Chain, ½ in. pitch x ⅝ in. wide.
- CHAIN CASES. Weatherproof, entirely enclosing chains. Inspection of the chains can be effected without the use of tools, and the Back Wheel, Clutch, Sprockets, Chains and Kick-Starter can be removed without disturbing the chain cases.
- STANDS Fitted to both wheels. The Rear Stand is our new "Protected" design, which does away with the fatiguing process of hauling the dead weight of the machine on to the stand. A Lever is employed which renders the jacking up of the motor cycle a matter of perfect ease.
- CARRIER . . . Steel tube, oxy-acetylene welded, fitted with two Pannier Bags with steel outer cases
- TOOLS A Tool Roll with full kit of first quality Tools is provided.
- FORKS "Brampton" Patent "Biflex," built to our special instructions. This Fork absorbs both vertical and horizontal shocks, and all links are adjustable for side-play.
- WHEELS A.J.S. Patent. Both wheels are interchangeable and can be detached in under 30 seconds. To take out the rear wheel it is not necessary to disturb the chain case, chain sprocket or mudguard. Wheels are fitted with flat base rims.
- SADDLE The Leatheries, Ltd. "Empire-de-Luxe," with extra large Pan Seat. 29½ in. from ground
- SPRING SEAT PILLAR A.J.S. design, anti-vibratory.
- BRAKES Front, latest "Bowden" Patent, operated by Lever on Handlebar. Back, extremely powerful and smooth acting, enclosed Internal Expanding Brake, operated by Foot Pedal on left side of machine.
- FOOT BOARDS. Fitted with Rubber Base and Heel Rest. They are placed so that the feet assume a natural position.
- GEAR BOX . . . Our renowned Three-speed Bottom Bracket Gear. Ball Bearings throughout. Operated by Patent Gate Change-speed Lever. Gear Ratios, 4'92, 8'86, 15'92 to 1.
- STARTING . . . Improved design "Kick-down" Starter, entirely enclosed mechanism. The Engine can be easily started without leaving the saddle and with the back wheel on the ground.
- CLUTCH Patent Multiple Plate, with Cork inserts. Hand-controlled by Lever on left Handlebar
THE CORRECT POSITION.
- MUDGUARDS. The Front Mudguard is of special design. Detachable Splayed Side Shields with an extra valance are fitted, giving perfect protection in the worst weather. The Back guard is 7 in. wide.
- TYRES Back and Front fitted with 700 x 80 m/m. Heavy Non-Skid Dunlop Tyres.
- FINISH Finest Black Enamel, four coats on special Rust Preventative process, including the Handle-bars. Only a few special parts are heavily Nickel Plated, the greater part of the machine being enamelled to save cleaning. Tank Black, artistically lined in gold.
- MEASUREMENTS WHEELBASE, 4 ft. 9in. WEIGHT, approx. 237 lbs. GROUND CLEARANCE, 6 in.
- REGISTRATION PLATES Fitted ready for painting.

[SIDECAR SPECIFICATION overleaf.]

SPECIFICATION.—CONTINUED.

Sidecar.

BODY . . .	Constructed of steel panelling, and made under our own personal supervision. Beautifully upholstered. Seat and back fitted with springs. The standard equipment includes Spare Wheel and Tyre, Storm-Proof Apron, Wind Screen, Sidecar Stand and Lamp Bracket. Ample room under seat for spare tin of petrol and oil.
CHASSIS . . .	Special underslung type, the design of which enables a very spacious body to be fitted. Ground clearance, full 6 in.
SPRINGS . . .	Large three-leaf Cee springs are fitted back and front, with shackles interposed on rear portion. The resulting action is a luxurious suspension unrivalled in point of comfort and efficiency.
WHEEL . . .	Instantly detachable and interchangeable with the wheels of the Motor Cycle.
TYRE	700 x 80 m/m. Heavy "Dunlop" Non-Skid.
MUDGUARD . . .	5 in. wide and fitted with Side-Shield, completely protecting the passenger against mud and dust.
LUGGAGE GRID	Strongly made of metal, very spacious, and is integral with the body. Therefore any luggage carried is insulated from road shocks exactly the same as passenger. A locker for tools, spares, &c., is fitted under Luggage Grid.
COLOUR	Our standard colour is Black, from which no deviation can be made.

	Price, 6 h.p. Combination,				
	Complete with Spare Wheel and Tyre, Spring Seat Pillar, Wind Screen, Stormproof Apron and Tools	-	-	-	£190 0 0
”	Machine only	-	-	-	£138 0 0
”	Sidecar, Complete with Spare Wheel and Tyre, Wind Screen and Apron	-	-	-	£52 0 0
”	Sidecar, Fitted with Wind Screen and Apron only	-	-	-	£43 0 0

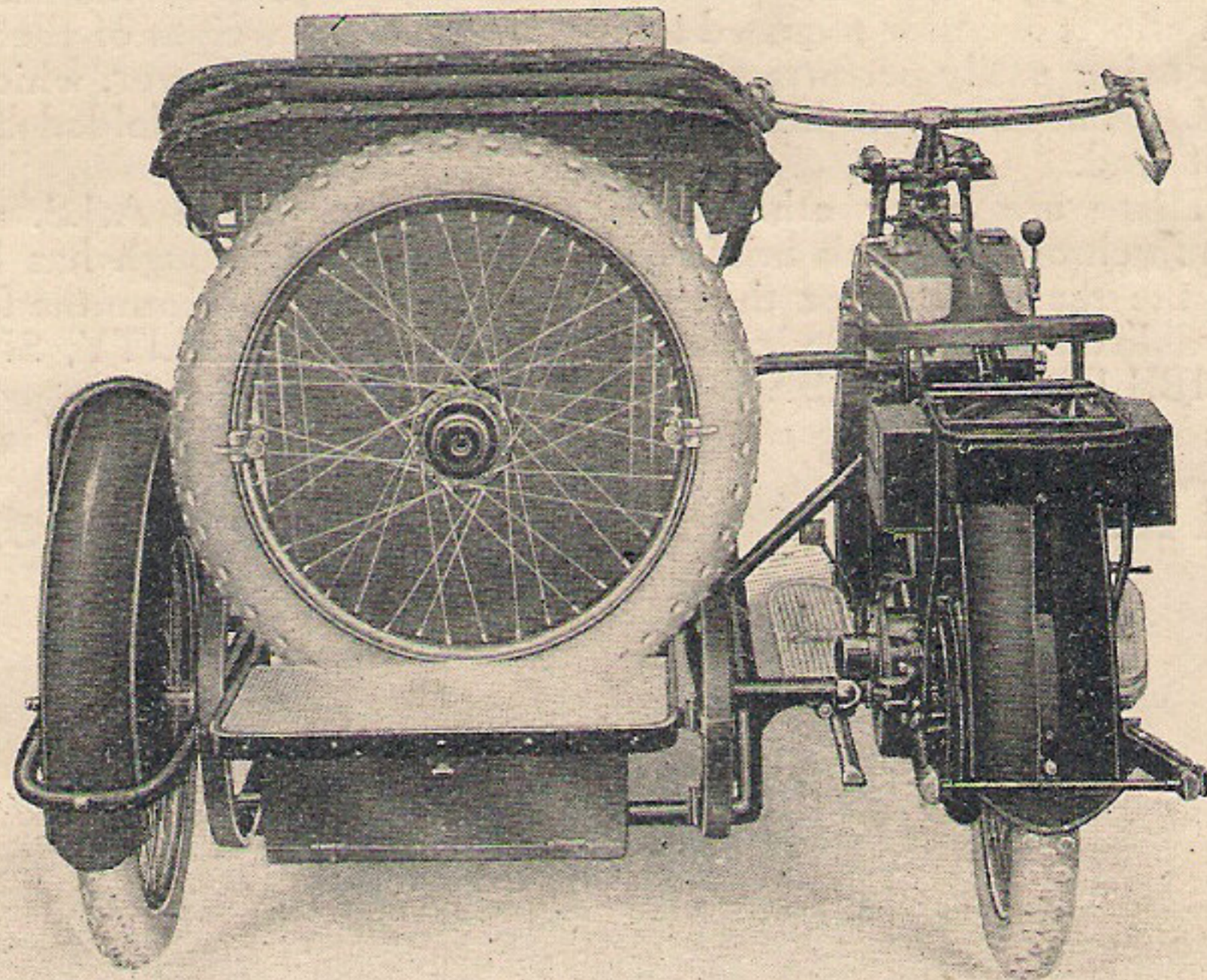
EXTRAS—		
Hood	Side Curtains	Hood Cover
£4 10 0	£2 0 0	£1 5 0

The above prices for Extras apply only when fitted by us to new Machines prior to Delivery.

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

Owing to the present unsettled conditions it must be distinctly understood that the above Prices are subject to alteration without notice, and goods will be invoiced at prices ruling at time of delivery.

6 h.p. A.J.S. Sidecar Combination.



Rear View

SHOWING HOW THE SPARE WHEEL IS CARRIED.

THE above illustration shows how the Spare Wheel of the A.J.S. Interchangeable Detachable Wheel system is carried. The Wheel is supported upon two brackets fixed to the rear of the body of the Sidecar. The brackets incorporate a pair of quickly removable clips which grip the rim of the Wheel and support it clear of any portion of the body or chassis. In addition to this desirable feature the Wheel is entirely out of the way of both passenger and driver, is perfectly protected from deterioration whilst not in use, and readily accessible when required by simply unscrewing two fly nuts. This illustration also shows the spacious rubber-covered luggage grid, with tool locker underneath.

A postcard is enclosed with each new A.J.S. Motor Cycle, which when duly filled in and returned to us, entitles the purchaser to a signed Guarantee for six months, and an Instruction Booklet. Unless the purchaser is in possession of the signed Guarantee we do not undertake repairs or supply replacements under our guarantee.