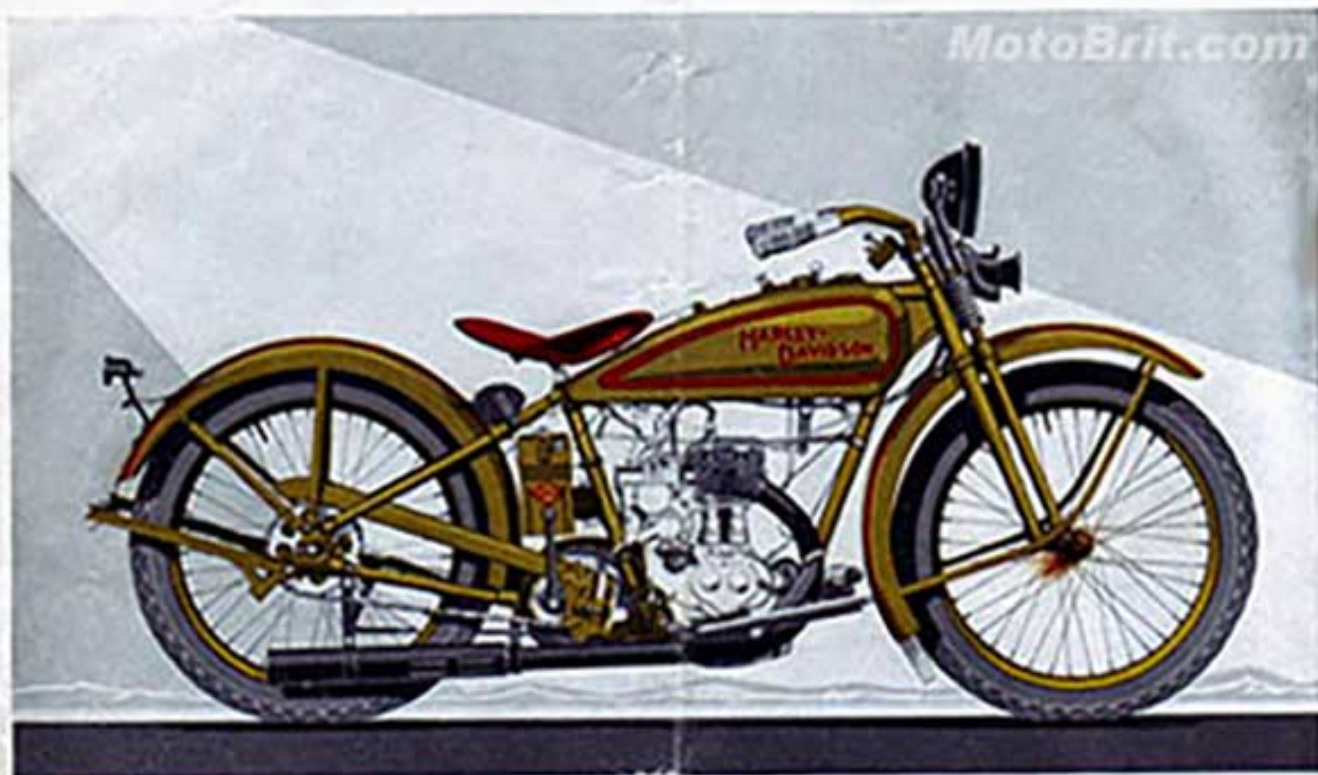


# HARLEY- DAVIDSON *for 1927*







## Right Side View of the Single

**T**HE outstanding performance of the Single is matched by its mechanical excellence. Every feature to provide comfort, ease of handling, durability and long life is incorporated.

The motor is fitted with the licensed genuine Ricardo combustion cylinder head. This head provides the correct turbulence of compressed gases and assures fast and complete combustion. Maximum power, quick acceleration and great gasoline economy are the results that follow from the use of this head.

Simplicity and accessibility are keynotes in the design of the Single. Twenty minutes is all it takes to remove the cylinder head, clean out the carbon and put the head back on and be ready to ride. Anyone can do the job.

Great riding comfort has been built into the Single. The large form fitting saddle is mounted on the patented Harley-Davidson spiral spring seat post. The front forks

are double acting with helical main, recoil and buffer springs that absorb the jars and jolts of the road. There are roomy folding foot-boards. The riding position is way down low. Tires are full balloon, 26 x 3.30 inches.

The Single has a three-speed progressive sliding gear transmission and single plate dry disc foot operated clutch. Shifting gears is easily and quickly accomplished.

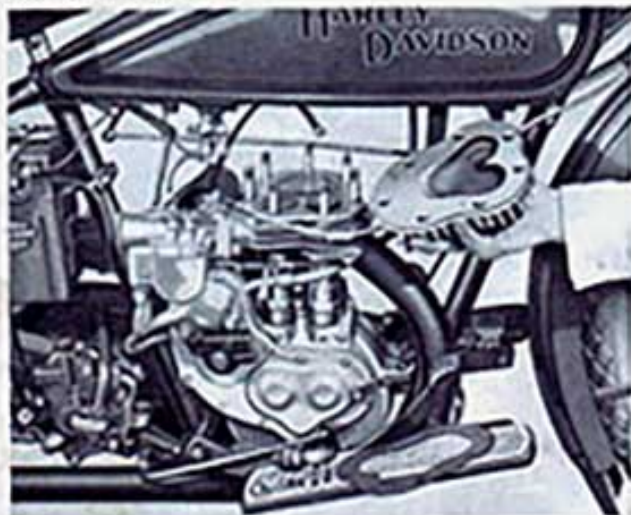
A complete built in Harley-Davidson single-unit electric system is regular equipment and provides a powerful light, efficient warning signal and weather and water-proof ignition.

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The Harley-Davidson side by side valve 21 cubic inch electric equipped Single, known as model B, complete with single-unit lighting and weather and water-proof ignition system including generator, coil, timer, four plate storage battery, relay cut-out, switch panel, vibrator horn, two bulb headlight and tail light, \$235, at factory.

## Some of the Outstanding Features of the Harley-Davidson Single Model

**T**WENTY-THREE years of experience in the building of high quality motorcycles is the background for the design and construction of the Harley-Davidson Single. The time tried and tested features that have made the Harley-Davidson Twins the favorites of discriminating riders the world over have been incorporated in the Single. The result is a motorcycle that for performance and comfort is without equal in its class.



### Simple, accessible motor

Simplicity, accessibility, economy of operation and wonderful performance are the outstanding features of the four-stroke cycle 21.098 cubic inch piston displacement side valve Single motor.

A licensed genuine Ricardo head is a feature of this motor. With this head design correct turbulence of the gases in the combustion chamber is obtained with the result that the full power of the gasoline is utilized. This makes for a powerful and very responsive motor as well as for great gasoline economy.

Twenty minutes is all it takes to remove the cylinder head, clean the carbon, put the head back on again and be ready to ride. It's not necessary to take the motor out of the frame or change the adjustment of the controls. Anyone can remove the carbon from this motor. Simply take off the nuts fitted on the seven husky studs and the motor is open for cleaning. A special design copper gasket makes a perfect gas tight seal between the head and cylinder.

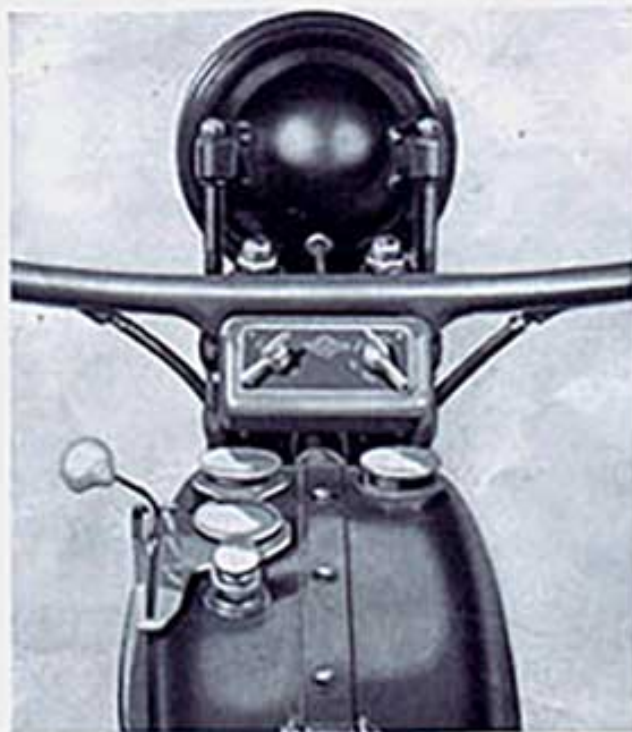
Bearings are generous in size and make for long

motor life. There is a  $\frac{3}{4}$  inch phosphor bronze bushing on the gear side and a  $\frac{3}{4}$  inch roller bearing with twelve rollers on the sprocket side. The connecting rod crank pin is  $\frac{3}{4}$  inch in diameter and fitted with a roller bearing. The upper connecting rod bearing is  $\frac{39}{64}$  inch in diameter. The piston pin is case hardened steel, finely ground. The cam gears each run on two phosphor bronze bearings.

The valve actuating mechanism is simple in design and highly efficient. Wide cams act directly on mushroom tappets that operate the valves. The piston is lightweight iron alloy with three deep, narrow, slot cut rings at the top.

Lubrication is by Harley-Davidson positive feed mechanical oiler supplemented by hand pump. The oil flows in over the gears down into the crank case where it lubricates the motor bearings and then by splash is distributed to the piston and cylinder walls.

### Dependable electric system



The electric system on the Single is an integral part of the motorcycle. It is entirely built in and no parts or units are attached as an afterthought to perform the

important functions of providing lighting and ignition. Generator, mounted on motor base, is operated through motor timing gears. Ignition unit is compact and accessible, being combined with the generator. The simplicity and dependability of this system has made it world famous.

The system consists of a Harley-Davidson generator, water and weather-proof ignition coil and timer, four plate storage battery, relay cut-out, vibrator horn, two bulb adjustable focus headlight, standard tail lamp, ignition and light switch panel located back of steering head.

The relay cut-out switch electrically and positively puts the battery in the charging circuit as soon as the generator voltage exceeds that of the battery. When the ignition switch is turned off and the motor stopped, the relay cut-out automatically breaks contact and prevents the battery from discharging through the generator armature and field coil windings.

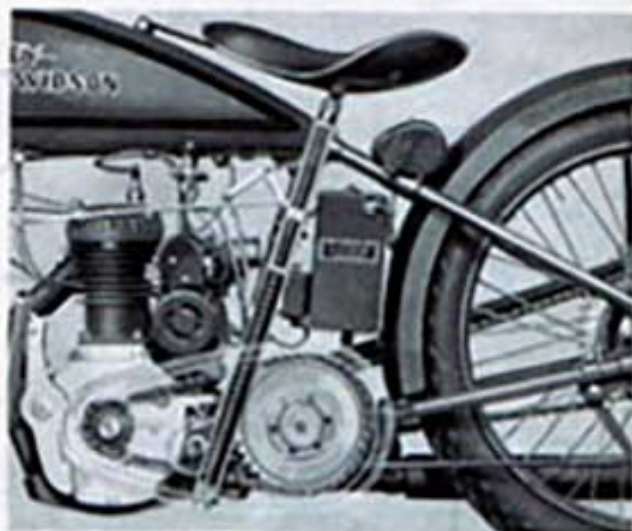
## Very comfortable riding



Harley-Davidson motorcycles have always had the reputation of being easy riding and this same desirable feature applies to the Singles.

The saddle position is low and the rider can put his feet down flat on the ground any time he wishes. The footboards are folding standard Harley-Davidson, full length and mounted at just the right angle for maximum comfort. They are rubber mat covered.

The center of gravity of the machine is way down low and makes the motorcycle easy to handle. The



handlebars, saddle and footboards are all placed in proper relation to one another and this makes the rider the master of his motorcycle at all times.

The forks operate on the same principle as the forks that have always been used on the Twins. Six helical springs, cushion, recoil, and buffer, iron out the bumps and ruts of the road.

The form fitting saddle floats on the well known Harley-Davidson standard size cushion seat post. Springs go all the way down to the bottom of the frame. Provision is made to adjust the spring tension for different weight riders.

Full balloon tires, 26 x 3.50 inches are regular equipment and add greatly to riding comfort.

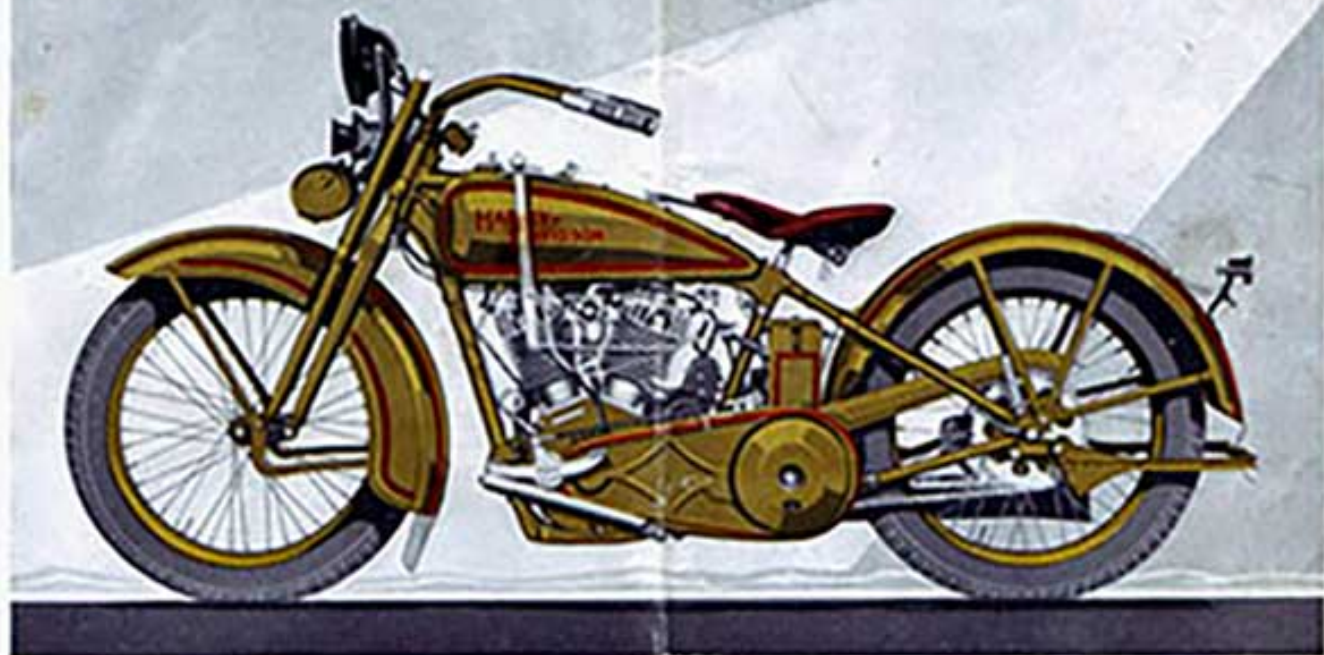
## Ten Alemite fittings

There are ten Alemite fittings on the Singles that make it easy to lubricate the principal bearing surfaces that are not lubricated by the mechanical oiler and the oil in the transmission case.

Not only can lubrication be done quickly but the 500 pound pressure under which the grease is delivered, forces out all the old caked grease and allows the bearing surfaces to function freely with minimum wear. An Alemite gun is regular equipment.

## Cushion drive sprocket

All the Singles are equipped with a cushion drive sprocket that smooths out the power impulses of the single cylinder motor. The result is that an even flow of power is delivered to the rear wheel that cuts down vibration and minimizes chain wear and noise. This compensating sprocket is simple in design and when required can be easily serviced. The necessary lubrication for this sprocket and for the front drive chain is positively provided from the motor.



## Harley-Davidson Twin 61 Model

**N**O motorcycle of its type has ever approached the universal popularity of the Harley-Davidson Twins. Powerful, speedy, sturdy, serviceable, dependable, they have for years been the favorite mounts of the experienced riders who are satisfied with nothing short of the best.

Every feature that advanced engineering and up-to-date design can add to achieve perfect performance, comfort and class in appearance, is found in these new improved models. The exceptional service these machines have given tens of thousands of owners in every nook and corner of the globe is your assurance that you buy wisely when you buy one of these Harley-Davidsons.

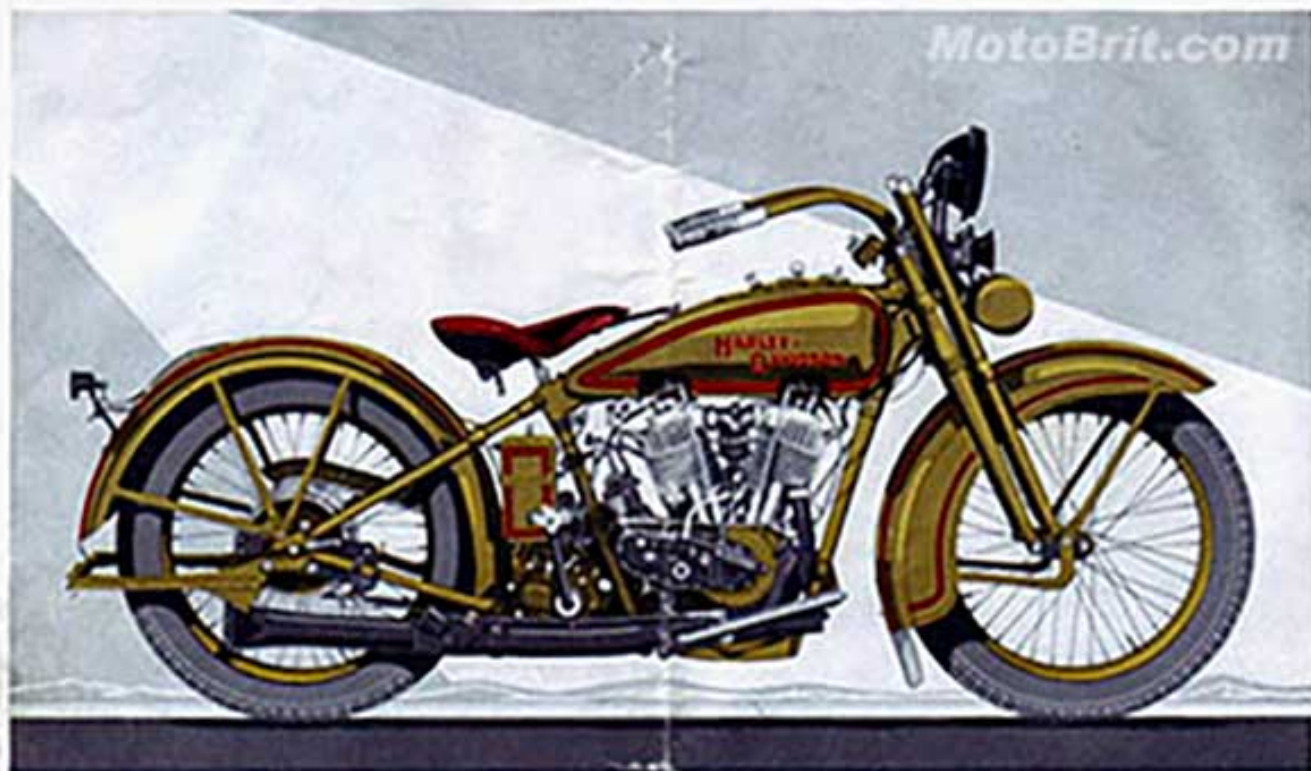
First to attract your eye are the appealing lines of this Twin. Trim and neat, like a thoroughbred, you instinctively feel it possesses a reserve of power. And when you

open the throttle and let the 61 cubic inch motor get into action you know it has all the speed the most ardent solo motorcyclist is looking for and also has ample power to pull a sidecar with passenger.

There is a world of riding comfort in these Twins. The form fitting saddle is suspended on the famous Harley-Davidson cushion seat post. The riding position is down low. You can put your feet flat on the ground any time you wish. The folding footboards are ample in size. The tires are full balloon, 27x3.85 inches.

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The Harley-Davidson 61 cubic inch electric equipped Twin, known as model J, complete with single-unit lighting and weather and water-proof ignition system including generator, coil, timer, twenty-two ampere-hour storage battery, relay cut-out, switch panel, motor driven horn, two bulb headlight and tail light, \$310, at factory.



## Harley-Davidson Twin 74 Model

**P**OLICE and those riders who want the very ultimate in acceleration, speed and power will favor this 74 cubic inch Twin. It is also preferred by sidecar motorcyclists who want power to spare.

The Twins are exclusively equipped with the well known Harley-Davidson designed and built single-unit electric system. This is the same type ignition and lighting system that is standard on the best cars. The big dependable generator and large twenty-two ampere-hour battery provide an abundance of current for efficient lighting, operation of the motor driven horn, and insure a hot, fat spark for ignition. Ignition is weather and water-proof. Switch panel for lights and ignition is located within easy reach. There is a relay cut-out that automatically opens and closes the battery-generator circuit. The push type horn button is conveniently located.

The loop frame provides a low center of gravity and makes for a perfectly balanced motorcycle that is easy to handle at all speeds even where the going is bad. The drop forged head is extra strong and the wide trussed loop protects the motor base. There is liberal road clearance.

The symmetrically shaped gas and oil tanks give the rider lots of knee room. The gasoline capacity is four gallons and three pints, and the oil capacity one gallon one pint.

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The Harley-Davidson 74 cubic inch electric equipped Twin, known as model JD, complete with single-unit lighting and weather and water-proof ignition system including generator, coil, timer, twenty-two ampere-hour storage battery, relay cut-out, switch panel, motor driven horn, two bulb headlight and tail light, \$320, at factory.

# Details about the Construction and Design of the 61 and 74 Twin Models

**I**T has always been Harley-Davidson policy to build well. For the twenty-three years Harley-Davidson have been produced this policy has always been uppermost in the minds of our engineers and the men in charge of manufacture. No expense of time, materials or specialized machinery has been spared to give Harley-Davidson riders the greatest motorcycle values.

In these Twin models we embody all the sterling features that have made Harley-Davidson the world's most popular motorcycle. We feel confident you will give these models your enthusiastic approval once you look into their superior design and construction.

## Rugged trussed loop frame

The frame head is made of drop forged steel. A wide trussed loop protects the base of the motor. The frame members are strongly reinforced, heavy gauge, high carbon, seamless, tubular steel.



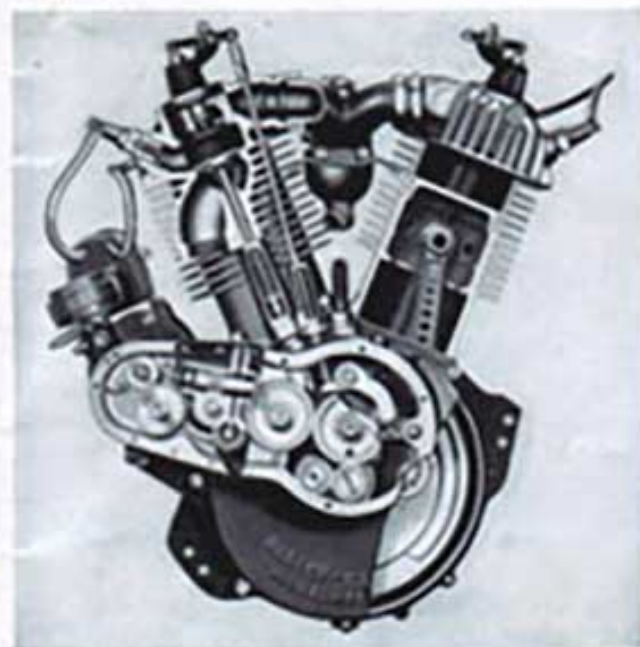
In the Harley-Davidson loop frame design the motor is cradled in the frame and is not called upon to withstand frame strains and stresses.

A low riding position is one of the outstanding features of the Harley-Davidson trussed loop frame. With this frame the center of gravity is way down low, making the motorcycle exceptionally easy to handle. There is ample road clearance.

## Speedy and powerful motor

Great speed and power, quick acceleration, minimum vibration and long life are the outstanding features of the Harley-Davidson V-type, twin cylinder, air cooled, four-stroke cycle motor. This motor is built in two sizes, 61 cubic inch and 74 cubic inch,

both of the same design. Complete specifications are to be found on page 15. Pistons are lightweight iron alloy with three deep, narrow, slot cut piston rings at the top that effectively hold compression and give long wear.

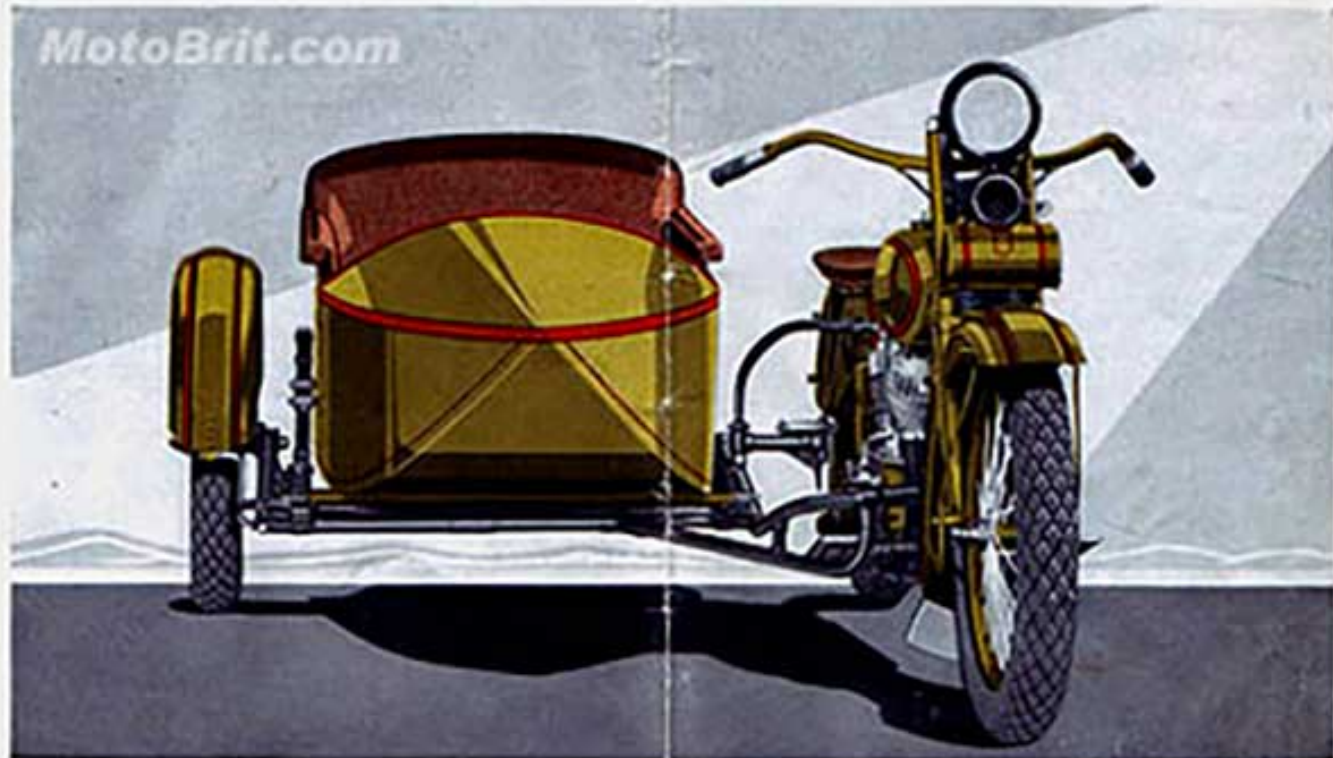


## The oiler is trouble-proof

This simply constructed oiler will never give trouble. It has few working parts and large bearing surfaces. It assures just the right lubrication at all times. This prolongs motor life and gives the rider the maximum number of miles per gallon of oil. Adjustments to control the flow of oil to meet varying climatic and riding conditions can be made easily and quickly by adding or taking out washers under the head of the conveniently located adjusting screw.







## The Double Passenger Sidecar

THE family man or the rider who wants to carry more than one person in the sidecar will find this model well suited to his needs. This sidecar is exceptionally roomy and will comfortably carry two adults or one adult and two children. The seat is thirty inches wide.

Two C type springs in the rear and two quarter-elliptic springs in the front fully absorb the shocks of the road. Each of the rear C springs has five leaves and the front springs each have four. There are twenty-four spiral springs in the seat and twelve in the back cushion which with the deep heavy upholstery provide great riding comfort. There are two boards on which to rest the feet. A convenient step, firmly mounted on the chassis, makes it easy to get in and out of the sidecar. The road tread is fifty-six inches.

This two passenger sidecar is attached to the motorcycle with ball and socket connec-

tions front and rear, and a hinged steel bar that attaches at the top of the seat post. A semi-flexible connection is thus provided which makes the entire combination easy for the rider to handle. There is no jar, tug or pull to the handlebars.

There is a world of room in this model for carrying luggage, touring and camping equipment. By moving the back cushion forward access is had to a large water-proof compartment. More carrying space is provided under the seat cushion. A handy pocket for touring maps, and other items is located on the left side. Six Alemite fittings are provided.

The color is olive green with maroon stripe. Interior finished in rich tan upholstery.

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The Harley-Davidson Two Passenger Sidecar, as pictured above, known as model QT, \$130, at factory. This price does not include motorcycle.