The WILLYS-OVERLAND STARTER



Atorrent of POWER and SPEED!

THE WILLYS SIX

December

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Announcing the New Willys Six-

An entirely new expression of modern motor design, construction and performance

T IS our attempt, in this article, to present for you certain facts and figures; information and data which will give you a vivid word picture of Willys-Overland's most recent creation—the new Willys Six

You will, of course, appreciate that words are wholly inadequate in describing a motor car such as the new Willys Six. A careful inspection, and a thorough and convincing demonstration of the car itself will better convey to you what Willys-Overland engineers have accomplished.

The Willys Six is emphatically a new automobile. It introduces to the low-priced six cylinder group unprecedented standards of speed, power and performance. It is an entirely new expression of modern motor car design and construction. It has been designed to meet modern requirements in every respect.

It has been in the stage of development for many, many months. It has been subjected to positively cruel tests. Its behavior has been critically observed and its road deportment, under conditions which no sane owner would ever drive, has been laudable.

Speed Capabilities

Present day motoring in itself is highly competitive. Speed, power and responsiveness, capable of taking the lead at the flash of the "go" is a major requirement. A car's willingness to get away and to go places in congested traffic, or to deliver to its owner, mile after mile of susThis announcement story will give you an idea of what you may expect from the new Willys Six. It contains details of gruelling tests to which this car was subjected during its development.

tained high speed is the thing that counts, and the quality looked for by every purchaser.

The new Willys Six will fulfill, to a thrilling degree, this increasing demand. It has been designed to perform. When acceleration is desired the car will respond quickly. It will leap ahead like a spirited thing. It will step away from anything in its price class with ease and grace, confidence and unfailing satisfaction.

Confirming this, note what the following tests have revealed. The Willys Six will travel from 5 to 25 miles per hour, in high gear, in just 8 seconds. It will flash from 5 to 50 miles per hour in 21 seconds, in high gear.

Second gear tests have shown equally remarkable activity. This new car may be driven 45 miles per hour in second gear with unusual

smoothness and silence. On the highways and straightaways it will zoom along hour after hour at a mile a minute. And if you care to travel faster the Willys Six is eager to do 72 miles per hour.

This will give you some idea of what to expect in the way of performance from the new Willys Six. However, you cannot possibly get the full appreciation of what this car will do and the way it will do it, until you slip in behind the wheel, and put it through your pet tests; demanding that it answer for itself anything you may care to ask. Then, and then only, will you know to the fullest degree what Willys-Overland engineers have brought about in this truly remarkable automobile.

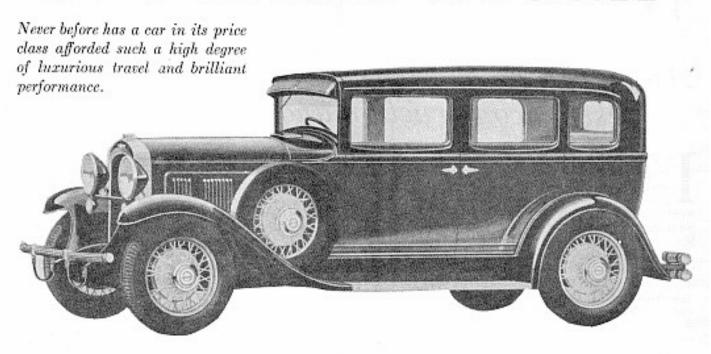
A Torrent of Power

Speed is not the only factor which has been given serious consideration in the planning and designing of the new Willys Six. Its engine, the most modern and advanced idea in automotive power plants, will carry you through places you formerly thought unfair to ask a motor car to take you. It has a bore of 3½ inches, while its stroke is 3½ inches. It has 195 cubic inches of displacement and will develop 65 horsepower at 3400 r.p.m.

During the time that the Willys Six was having to answer to the stubborn tests conceived by its designing engineers, it has pushed behind it many of the principal mountains and steep grades in the country. The Willys Six is not a product of a (Continued on page 15)

A Torrent of Power and Speed

The Willys Six De Luxe Sedan



The New Willys Six

(Continued fram page 3)

man-made proving ground. It has been required to prove its case on the country's natural highways where owners might choose to put it through its paces.

While serving its apprenticeship under the calloused supervision of its designers, the Willys Six climbed every mountain in high gear, and many of these are noted testing grounds and are avoided by the average driver. The Willys Six power is obtained with a compression ratio of 19 percent or 5.25 to 1. This is the highest compression and highest efficiency obtainable from any engine in its price class.

Quality in Frame and Body

When you inspect the Willys Six pay particular attention to the high quality of the frame and body details. The frame or foundation has six supporting cross members. The principle of riveting the cross members to both the upper and lower flanges of the side rails has been followed out in this new car. The channel section of the frame is of 264 inch stock with 134 inch flange and the side rails are 514 inches deep. The design of the Willys Six frame results in an unusual degree of strength and durability.

The over-all length of the Willys Six is 152½ inches. The springs are long and flexible and are of Chrome-Vanadium steel, the best spring material known to engineers. The spring shackles are Tryon, which are self-adjusting and self-lubricating. This resists wear and eliminates frequent attention.

The new Willys Six is a remarkably easy car to handle. Its steering gear is the semi-irreversible type, worm and gear, with ratio II to I. The large surface, four-wheel, internal expanding brakes enable you to drive at high speed with a feeling of confidence and security. Tests show surprising deceleration results. At a speed of 20 miles per hour, and with an exceedingly light pressure applied to the pedal, the car may be brought to a stop within 19 feet. The car may be brought to a stop so violently, however, as to surge the occupants forward.

Adding to the inherent riding comfort of the Willys Six are Monroe Hydraulic Shock Eliminators, both front and rear.

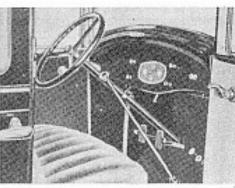
You will be especially pleased with the Willys Six body lines and interior refinements in the various model styles. The bodies are wide, providing ample leg room, plenty of head clearance and liberal elbow space. The rear compartments of the five-passenger models will accommodate three large persons with comfort and ease. The seat backs are high and come well up on the passenger's shoulders. They are constructed so as to conform with the natural curves of the body.

The cushions are well padded and richly upholstered. They are deep and restful. The springs are responsive. In the De Luxe Sedan arm rests, assist straps, rear and quarter curtains, robe rail, and other fitments have been included for the owner's convenience and comfort.

The driver's compartment is also spacious. Serious thought has been given to the arrangement of all controls. They are virtually at the driver's finger tips. The adjustable steering wheel enables the car to be fit to the owner's individual driving requirements.

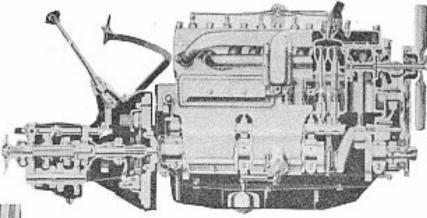
Here are some of the Willys Six mechanical features on which to build your sales arguments.

USE THEM!

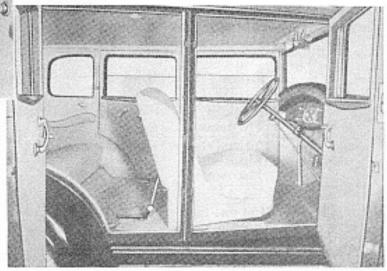


The front compartment of the new Willys Six with its convenient placement of all controls. The seat is wide and deep, allow-ing you to assume the most comfortable driving position. There is ample leg room. The interiors are righly appointed.

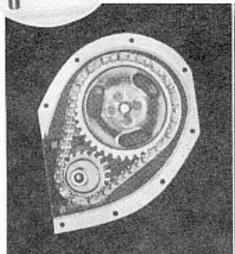
The new Willys Six carries, as standard equipment. Monroe Hydraulic Shock Eliminators, front and rear. These, together with the long, responsive springs, and the inherent riding qualities of the car. enhance its comfort.



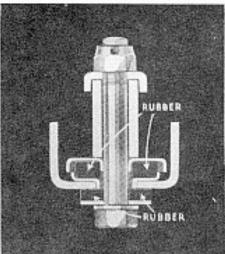
The new Willys Six engine incorporates the most advanced ideas of modern engineering. It has 65 horsepower and is the highest compression engine in its price class. It delivers flashing activity with smooth case and grace. Its remarkable acceleration will carry you from 5 to 25 miles per hour in 8 seconds and from 5 to 50 miles per hour in 21 seconds. On the straightaways it will do 72 miles per hour.



The Willys Six De Luxe Sedan is luxurious in every detail. Its wide doors, opening well back on the seats, afford easy access. In the rear compartment are curved arm reats, adding to your comfort. It is equipped with assist strups, rear and quarter curtains, foot rests, robe rail, dome light and many other refinements.



The silent timing chain, for quiet, smooth operation, drives the canadaft and auxiliary shaft on the new Willys Six. It adds to the already quiet performance of the engine.



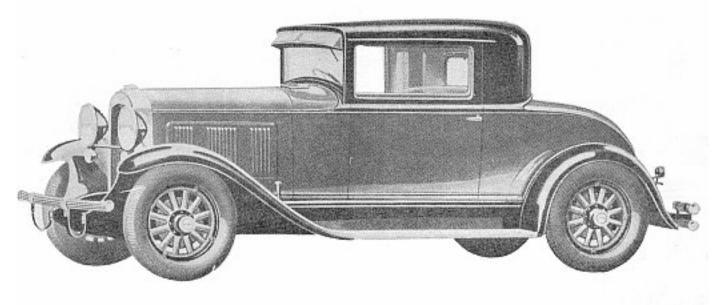
The Willys Six engine is mounted in rutber. The rubber cushions above and below the engine leg reduce vibrations.

Internal expanding brakes of the Willys Six give perfect operation. They are fully enclosed, thus they are protected from water, road dirt, mad and grit. Only a slight foot pressure is required to bring the car to a firm ston.



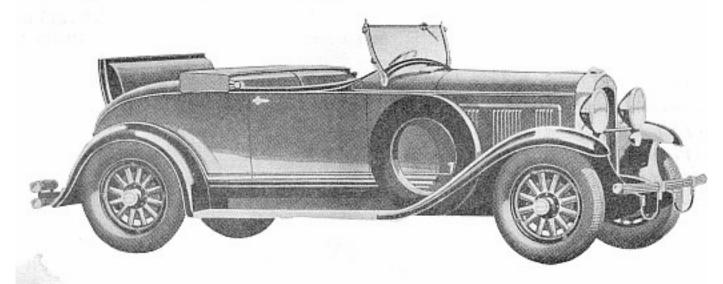
The Willys Six Coupe

An ideal personal car with privacy and comfort for two or room and convenience for four

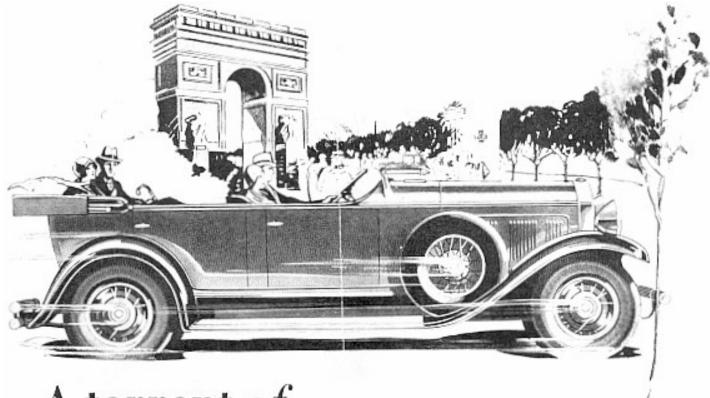


The Willys Six Roadster

Fleet, sweeping lines characterizing its power and speed capabilities



Monroe Hydraulic Shock Eliminators



..A torrent of

POWER and

SPEED

In engineering, the Willys Six sweeps beyond all precedent and establishes new high standards for all low-priced cars. It is called the speediest and most powerful car offered in its price class, and its all-around performance can be adequately appreciated only through personal experience.

The big motor of the Willys Six is rubber insulated against vibration and develops 65 horsepower, with speed of 72 miles an hour easily and comfortably sustained...45 miles an hour in second gear for dashing pick-up...hill-climbing

ability that will prove a revelation to even the most experienced motorist.

72 miles an hour—45 miles an hour in second gear Full Force-Feed Lubrication Ventilated Crankcase Rubber Insulated Power Plant

An entirely new car, the Willys Six meets the popular demand of the motoring public for a low-priced Six with a speed and power development previously found only in cars above the \$1000 class.

The New WILLYS SIX

COMPARISON

98-B vs. Competition

Item	Willys Six	Essex	Pontiac	De Soto	Durant 60
Wheelbase	110"	1101/6"	110"	Not Given	109"
Frame Over All Length	1521/5"	Not Given	Not Given	169" Including	-
Frame Cross Member		5	4	Bumpers 4	Not Given 5
Spring Shackles	Tryon	Plain	Tryon		4
	Mechanical	Mechanical	Mechanical	Tryon	Tryon
Brakes	Front Rear Int. Exp. Int. Exp.	Front Rear	Front Bror	Hydraulic Front Rear Int. Exp. Int. Exp.	Mechanical Front Rear
Service Brake Area	1351/2 sq. in.	147 sq. in.	191.2 sq. in.	116.6 sq. in.	147 sq. in.
Hydraulic	Yes	Yes	Yes	Yes	No
Shock Eliminators	Monroe	Monroe	Lovejoy	Lovejoy	Watson
Universal Joints	2	2	2	2	2
Steering Spindle Thrust					Timken Roller
Bearings D.	Roller Thrust	Bushing	Ball	Ball	Thrust
Wheel Bearings Front and Rear	Adjustable Timken	Timken Thru-	DII	Timken Front	
	Thru-out	out	Dall	Timken Rear	Thru-out
	Adjustable	- out			
Pinion and Differential	Timken	Timken	Ball	Timken	Timken
Bearings	Thru-out	200000000000000000000000000000000000000	100000		1 mincen
Engine Bore and Stroke		23/4"x41/2"	35/16"x37/8"	3"x41/8"	27/8"x43/4"
Cu. in. Piston Displace-	193 cu. in.	160.3 cu. in.	200 cu. in.	174. 9 cu. in.	185 cu. in.
ment					
S. A. E. Rated H. P.	25.35	18.2	26.3	21.6	19.8
Acutal Brake H. P.	65 at 3400	55 at 3600	57 at 3000	55 at 3200	46 at 3200
Compression Ratio	5.56 to 1	Not Given	4.9 to 1	5.0 to 1	5.4 to 1
Number Main Bearings		3	3	4	-E
Type Main Bearings	Interchangeable	Cast Babbitt	Interchangeable floorie Back	Intercliangeable Bronze Back	Interchangeable Bronze Back
Weight of Crankshaft		Not Given	Not Given	Not Given	Not Given
Total sq. in. of Bear- ing Area	49.66	38.25 sq. in.	32.22 sq. in.	45.06 sq. in.	36.29 sq. in.
	Full Pressure to Main Conn. Rods,		Pressure to Main	Conn. Worls Com. 1	Pressure to Main Count Rods, Cani-
Engine Lubrication	Camshaft and Timing Chain Case	Pump Splash	Coun. Mods Camshaft and Timing Chain	shaft and Timing	shaft and Timing
Engine Cooling	Pump Cir. Ther- mostat Control	Thermo Syphon	Pump Circulation Thermostat Control	Pump Circulation	Chain—Spray Pump Circulation
Camshaft Drive	Silent Timing Chain	Silent Adjustable	Non-Adjustable	oilent	Chermiotat Control
Intake Valve	Nickel Chromtum	Liming Chain	Firming Chain Nickel Steel	Diming Chain	Fining Chain
Exhaust Valve	1%" Head Dia. Silchrome Steel	136" Head Dia.	Eff Head Dia. Silcitiume Steel	'A" Head Dia.	å" Head Dia.
	Liff" Head Dia.	1%" Head Dia.	141" Head Dia.		& "Head Dia.
Piston	Cast Iron	Aluminum Alloy	Cast Iron		Alluminum Alloy Nelson-Invar Strut
Connecting Rad Length	81/4"	Not Given	914"	Not Given	9"
Size Connecting Rod Bearing	2"x1%6"	113/6"x13/8"	2"x1%"	13/8"x11/4"	2"x1½"
Clutch Type	Single Plate Dry Disc	Sinala Bloco (SC)			Single Plate
		Single Plate Oil 30"x5.00"			Dry Dise 29"x5.00"