# Jeffery



### 33 LEADING JEFFERY POUR FEATURES

Standard seven-passenger body Divided lounge-type front seats Extra length springs Weight 2800 pounds 116-inch wheel base 34 x 4 Goodyear Fortified tires all-weather tread rear

Jeffery Chesterfield body Rear seat 48 inches wide Easy-riding auxiliary seats Extra wide doors Deep leather upholstery Concealed door hinges Left drive—conter control Light Brewster-green finish

Jeffery high-speed motor
Unit power plant
Extra large motor bearings
High-ension magneto signition
High-efficiency carburetor
Electric starting and lighting
Smooth acting disc clutch
Lary-coarted steering gear
Hotchkint type flexible drive
Sident rear axis
Extra surface brakes
Extra surface brakes
Extra surface brakes
Extra surface brakes

Jeffery one-man top Adjustable clear-vision windshield Locking double dimmer lights Automatic gasoline feed Complete equipment 93% Jeffery built



# Jeffery Four

"America's Standard Automobile at a Thousand-Dollar Price" ESTABLISHING
A NEW
STANDARD
OF VALUE
AT A
THOUSAND
DOLLAR
PRICE



HE announcement two years ago of the Jeffery Four at \$1,550 marked the beginning of a new era in the building of American motor cars the era of light-weight, high-speed, high-effitors. This year the Jeffery Company, having

ciency motors. This year, the Jeffery Company, having established the leadershif of this model among light cars, takes another great stride in advance by presenting the new Jeffery Four—an even finer automobile—at a thousand dollar price.

Catering to an imagined desire on the part of dealers of the public for ensustionalism or cheapness has no part in the purpose of the Jeffery Company in offering the new Jeffery Four to the American public. On the contrary, it is the definite aim and determination of the Jeffery Company to establish the Jeffery Four as a standard car of superior quality—a car which can be built, not for a single season only, but continuously, year after year, making only such changes as the evolution of sound motor-car practice shall dictate.

This means that discriminating buyers can invest their money in the Jeffery Four without hesitation. And they can then drive their cars for four or five seasons without suffering the marked depreciation which has been such an unfortunate feature of the automobile business.

The Thomas B. Jeffery Company
MAIN OFFICE AND WORKS KENOSHA WISCONSIN



PEOPLE WHO FORMERLY PAID \$2,000 TO \$5,000 FOR AN AUTOMOBILE NOW FIND THE VERY QUALITIES THEY HAVE ALWAYS INSISTED UPON—IN THE IEFFERY FOUR, AT \$1.000

ON the following pages you will find the illustrated story of the Jeffery Peru-told in a single, clear way which will enable you to judge the car in its relations to your individual needs and desires. In reading this story, bear in mind that the Jeffery Pour has won its place in the automobile world, not by any freakish feature, nor by show weight of siles and advertising expenditure, but solely because of its actual record in the hands of thousands of courses.

of owners.

There is nothing untried about the car—nothing uncertain.

It is the direct descendant of the original Jeffery Four which has given thousands of people a new conception of motor-car quality, comfort, dependability, economy, and convenience. Two years



ago the original Jeffery Four was an unusual value at \$1,550. Owners who know the cat's performance say it was the first automobile of its quality, size, and efficiency to sell below \$4,500. Yet today the Jeffery Company offers a new Jeffery Four—an even firms car—with a new seven-passenger Chesterfield body—divided front seas—extra-length aprings—a car 200 pounds lighter in weight refined and brought to an even higher pitch of mechanical excellence throughout—at \$1,035—or \$1,000 without the auxiliary seats.

# AËROPLANES AND MOTOR CARS

The story of the Jeffery Four starts, strange as it may appear, in the experimental laboratory of an American aeroplane builder at least that part of the story which concerns the motor.

In the early days of aëroplaning, the great difficulty was to build a motor which would not be so heavy as to prevent rising



from the ground and yet would have sufficient power to drive the machine through the air. In fact, the excessive weight of the early gasoline motors kept men out of the clouds for several years after the other problems of flying had been solved.

It was easy to get power—simply by increasing cylinder displacement; but this meant size, bulk, weight. The solution was found in greater piston speed. They kept the size of the cylinders down but ran the motor faster—making up in speed what they had abandoned in size and weight. This was all "according to Hoyle" for it followed the well-known mechanical principle "Velocity multiplied by weight equals force."

Automobile engineers — particularly those in France — had been watching the work of the aviators. What interested them most was the remarkable smoothness, quietness, and flexibility of the new type of motor—and the fact that it consumed less gasoline and oil than the larger, slower motors.

Gasoline comes high in France. Any saving would be appreciated. A scries of experiments followed; and it was but a short time before a new high-speed motor appeared beneath the hood of a French motor car.

## IEFFERY ENGINEERS IN FRANCE

The new motor exceeded its maker's fondest expectations. It was smoother, quieter, more flexible, more economical than even the extreme optimists had hoped.



At about this time, two Jeffery engineers who had made it their particular business to watch developments in Europe, decided that the high-speed idea required investigation. They checked the performance of the new motor and concluded it would only be a matter of time until there would be nothing but high-speed motors, either in Europe or America.

So they set to work. The result was America's first smallbore, long-stroke, light-weight, high-speed motor—the same motor that has done so much to make the Jeffery Four a respected car wherever it performs.

# AMERICA'S FIRST HIGH-SPEED MOTOR

This first high-speed motor designed by Jeffery engineers, was placed in an experimental chassis and put through its paces — on good roads and had roads—over level country and in mountainous ections—on boulevards and through heavy, rain-roadsed clay roads. It was given a series of tests which would have wenched an ordinary motor and it stood up to its work like a hardrend weteran studing up under rifle free. It ran smooth as oil. It was quiet as an electric motor. It was fast as an express train. It pulled like a farm tractor—and it asend esposition—it saved to

In the spring of 1913 this excellent motor had completed its trials and proved its worth, and in the following fall, the Jeffery Company announced the Jeffery Four with its European type of high-speed, high-efficiency motor.



Thus through devious paths—from the laboratory of the American builder of aeroplanes,—across the water, over to France—and back again, to the Jeffery plant—have we followed the path of the high-speed motor.

# OTHER MAKERS FOLLOW SUIT

Today, everybody admits the superiority of the high-speed principle.

Every leading motor-car maker in this country has changed his plant to follow the Jeffery lead. Every racing car on the speedway gets its power from a high-speed motor. Every tost conducted has only served to strengthen the preponderance of evidence in fivor of this two of motor—until there is no longer any question. The high-speed motor is another in its action than its predecessor. The explosions come with greater rapidity, they are closer together, and the force of each individual impulse is lighter. This gives an evener, more fluid flow of power—less vibration—less noise—greater feeshility. The leftery Four throttes down in city traffic to three miles an hour—or leaps out smoothly and without apparent effort to the highest speeds on an open road.

The high-speed motor consumes less gareline and oil. The cylinders are smaller. The efficiency is higher. It costs less to operate.

The high-speed motor is lighter in weight. This is in accord with the general trend of motor-car design; for we now know that weight—beyond a certain point—is a detriment. Weight means



greater consumption of gasoline and oil; more rapid wear on tires; increased car-wracking over rough roads. The Jeffery Four motor is light in weight. Not too light—its weight and perfect balance make it a wonderful car on rough roads at high-speeds and give it amazing strength to stand long and wracking service—we it is sufficiently light to gain economy.

Summing up what this means to the buyer of motor-cars: The high-speed type of motor has established tolef as the most efficient yet produced, giving greatest power with greatest economy of gasoline, and wear. The Jeffery Company pionered its development in this country, and has therefore had a longer practical experience with high-speed motors than any other maker. The Jeffery Four motor as it stands today is the result of evolution. During the past three years it has been constantly refined and improved until it has reached a stage of medical psyripmen of the motor even than when fire amounted—and of the products, more of the lies motor even than when fire amounted—and

You can depend upon it that there is no finer motor to be had at any price. We believe, and thousands of our owners believe, that it is the most remarkable motor to be found in any car at its price or up to double its price.

It is a great motor—the kind of motor you would want in a car if you were called upon to go a long distance, at a time of dire need, to get a physician.



# ELIMINATING THE BUGABOO OF HIGH MAINTENANCE COST AND DEPRECIATION

DEPRECIATION

The average cost for service parts paid by Jeffery Four owners during the past three years has been only \$5.09.

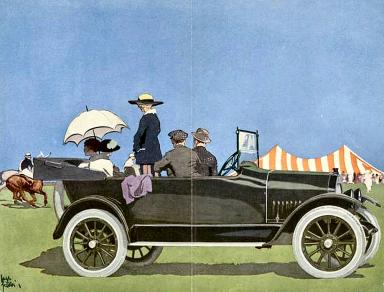
It is difficult to overestimate the significance of this condition to the motor-car buyer. It is the strongest possible direct evidence of the ultimate result of Jeffery design and Jeffery quality, and can only indicate that the Jeffery car—in design, materials, and workmanship—closely approaches perfection.

First of all, to reduce repair expense to this low figure the car had to be skillfully designed. The weight of the car had to be carefully distributed—to give perfect bolance. The co-ordinating parts of the chassin had to be considered separately and collectively to make certain that each was adapted perfectly to its particular work, and that each was fixed to operate in harmony with every other part. Then, most important of all, the relation of the motor rist weight, power, and peed—to the rest of the chassis had to be studied to eliminate wheation and to assure the proper relation between weight and prower.

These are problems requiring engineering skill of the highest order—and the Jeffery Company has always been in a position to secure and retain the very finest talent available. No money has been spared—no time begrudged—that would make the

The lounge type divided from cents afford easy access from the tennesus, and vice versu. This latest design also gives the driver perfect freedom in his contro of the car.







Jeffery Four a perfect biece of machinery. Moreover, leffery engineers have had the advantage of designing a car which is built practically in its entirety in the Jeffery plant. They have never been restricted by limitations set by parts manufacturers. They have designed the leffery Four as a complete car-designed it as a unit.

Then the great buying power of the Jeffery Company has come into play-giving the buyer the full benefit of Jeffery engineering skill. The leffery Company buys its raw materials in immense quantities. It pays cash and gets every discount offered. It gets the lowest price. This means we can afford to use the best obtainable materials

The next step is workmanship - and leffery cars have long been famous for the high quality of their workmanship.

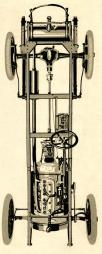
The result is a great lowering of maintenance and operating cost for

Convenience, and Com!

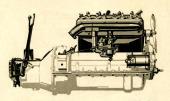
the owner. Good machinery runs more smoothly, requires less attention, and lasts longer than poor machinery. It depreciates less in value

So the Jeffery Four motor insures gasoline and oil economy. The light weight and perfect balance of the car itself give big tire mileage. Bear in mind also the extremely low cost per car of service parts only \$5.00-a record for low depreciation which we believe has never been equalled. Then consider that this low cost is a direct index of the low repair bills which are such a gratifying feature of leffery ownership.

From this it is evident that the investment of your money in a cheap car is short-sighted economy. The all-too-rapid deterioration and shifting of prices is bound to be costly in the long run. It is better by far to invest just a little more at the start; your pocketbook will be heavier in the end.



This Chassis gives you Powe

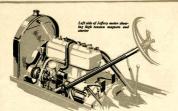


The famous high-speed, high-efficiency Jeffery unit power plant — motor, clutch, and transmission all in a single unit. This view shows the generator, earberster and articlion-type fan

# A NEW KIND OF COMFORT IN A \$1,000 CAR

Here, again, we have chiefly a matter of engineering design of correct relation between "spenging" and "unsurpany" weight of extra-length springs—and proper spring suspension. Jeffer engineers have made a science of those important matters. They have designed and experimented, rejected and selected, until they have brought into existence a new kind of motor-car comfort a basic comfort which rests for its foundation, where it ought to rest, on the underlying chassis of the car.





Then, into the body has been built a luxury of ease which in previous years was found only in the highest-priced cars—soft, deep, leather upholstery such as characterizes the finest types of overstuffed couches, into which one sinks with comfort and contentment—divided front seats providing easy access to the tonneau without stepping from the car, and giving the driver perfect freedom in his control of the car. Even the auxiliary seats have been given the most careful attention. They have been designed by experts whose business it is to create maximum comfort.

Never before has such comfort been offered at a similar price. It is the kind of comfort which enables women to ride or drive all day without fatigue.





#### DETAILED SPECIFICATIONS OF THE JEFFERY FOLIR

Moron—Four-cylinder en bloc, high-speed, high-efficiency, L-head type; 334-inch bore; 534-inch stroke; unit power plant; forty horsepower.

Pistons—Special analysis grey iron extremely light; piston pins are of special rackeled steel, case hardened and ground to an accurate fit, and fitted with high-grade

accurate fit, and fitted with high-grade bronze bushings; bushings are pressed into the pistons.

Piston Rings—Special analysis grey iron, 4

to a piston; these are carefully ground and fitted.

CRANKCASE—Cast iron; very rigid construc-

tion; bell housing at rear to attach transmission.

VALVES—Poppet type, located on right side: Rich tungsten sted: do not recaire

side; Rich tungsten steel; do not require grinding. Connecting Ross—Selected drop-forged steel: double heat treated; caps fastened by

two chrome nickeled steel bolts.

Connecting Rod Bearings—Die east babbitt; diameter, 2 inches; length, 2½ inches.

CAM SHAFT—One-piece drop forging; cams mushroom type, giving motor great lugging power and higher speed; three babbitt

CRANKSHAFT—Selected forging steel, .35 to .45% carbon; double heat treated; extra strong, 2-inch diameter.

Main Bearings—Die cast babbitt; three in number; diameter 2 inches; length, front 3¼ inches, rear 4¼ inches, center 3¼

inches; hand fitted.

Timmo Gears—Four helical or spiral gears; lubrication direct on point of gear mesh.

lubrication direct on point of gear mesh.

CARBURETOR—Float-feed type; hot air drawn in from around exhaust manifold, insuring

best carburetion; automatic gasoline feed.

IONITION—High tension magneto.

SEARTING AND LIGHTING—Two-unit, six-volt

STARTING AND LIGHTING—Two-unit, six-volt electric system.

LUBRICATION—Combined force-feed and

splash system; oil is forced to front gears, main and cranioshaft bearings; oil is pumped into troughs in lower half from which it is splashed to connecting rod bearings, pis-

ton and piston pins.

Oit. Puse—Plunger type, operated by eccentric off cam shaft.

Oil Capacity—Two gallons.

COOLING SYSTEM—Water.

RADIATOR—Honeycomb type; 10,000 square inches of cooling surface; 470 inches ex-

posed surface.

Fan-Two-blade aviation type of aluminum, with annular ball bearings.

WATER PUMP—Centrifugal.

WATER CAPACITY—Four gallons.

CLUTCH—Three dry disc plates; one steel and two asbestos friction discs in flywheel.

Transaussion—In unit with motor; selective type; three speeds forward and one reverse; gear ratios, low, 3.25 to 1; second, 1.82 to 1; high, 1 to 1; reverse, 4.33 to 1.

Waxeer or Motos—Complete with control parts, fan, carburetor, magneto, starter, and generator, 623 pounds.

Reason—Service brakes, external contracting

on rear wheels; surface extra large; diameter 14 inches, width 2 inches; very easy of access; readily adjustable; emergency brake external contracting, drum mounted on propellor shaft at rear of transmission—con-



sidered the most advanced engineering practice; accessible in an instant by lifting forward floor board; perfectly equalized.

Contract Steering, left side, levers in center.

Jeffery silent "cane" type gear shift. Horn
button on top of steering post.

STEERING GEAR—Irreversible, worm and wheel type; steering knuckles drop forged, of chrome nickel steel.

FRONT AXLII—Drop forged special analysis Ibeam with steering knuckles of chrome nickel steel, heat treated; clearance 1034 inches; taper roller bearings of case-hardened

nickel steel.

REAR AXLE—Floating type, identical with that of one of America's highest-priced cars; toper roller bearings; axle shaft and wheels easily removed; differential removed by removing rear cover; tube, seamless steel.

swedged and flanged out of one piece; clearunce, 10 inches. Gear Ratio 4½: 1. Davis—By hollow propeller shaft, through two universal joints and spiral bevel gears; Hotchkiss type—drive and torque through

rear springs.

SPRINGS—Front, semi-elliptic, 3634 x 2 inches,
7 leaves; rear, three-quarter elliptic, 53 x 2 inches—extra long and easy riding; 7 leaves upper, 8 leaves lower; chrome silico manigueses steed in main leaves: lubricated by

compression grease cups.

FRAME—Channel steel, very rigid, provided
with four cross bars; the side rails are extended at the rear to provide a support for
the gusoline tank and the spare tire; width
of frame over front ask. 10 inches: width

over rear axle, 31¼ inches.

GASOLINE TANK—Round steel tank in rear; capacity 13 gallons; automatic gasoline

WHEELS, RIMS, AND TIRES—Front and rear wheels artillery type, twelve 136-inch spokes; demountable rims; Goodyear fortified tires, 34 x 4 inches; front plain; rear, All-weather tread.

TREAD—56 inches.

WHEEL BASE—116 inches, SHIPPING WEIGHT—2800 rounds

Booy—Chesterfield type; divided front seats; auxiliary seats fold neatly against front seats and can be instantly removed from body when so desired. Rear seat 48 inches sold UPHOLSTERY—Black leather; deep double deck springs.

Finase-Light Brewster-Green with fine gold stripe; fenders and running gear black; wheels green with gold line.

Egument—Rain vision windshield, foot current in tenness, exter im and carrier, toologic rest in tenness, exter im and carrier, toologic relative to the control of the cont

ENTIRE CAR-93% Jeffery-built.

# TYPES AND PRICES

 Standard Seven Passenger
 \$1,035

 Wirkhout Auxiliary Seats
 \$1,000

 Three-Passenger Roadster
 \$1,000

 SEDAN (Top Removable)
 Five-Passenger
 \$1,165

 Five-Passenger
 \$1,200

 Seven-Passenger
 \$1,200

Prices F. O. B. Kenosha, Wisconsin Information on the Idflery Six sent on request.



### THE IEFFERY FOUR SEDAN

Four years ago the Jeffery Company produced the first enclosed car with divided front seats and entrance through the rear doors only. The name selected for this car was the Jeffery Sedan.

Its immediate popularity caused other makers to build cars of this type until today the term Sedan is generally used in describing enclosed cars of this design. This year the Jeffery Cooppany, maintaining its lead, amounces a new Jeffery Sedan which, by virtue of its high quality and molectate cost, extends the range of enclosed car service and gives wider popularity to the enclosed car tele. This car is the Jeffery Four Sedin—a custom-made enclosed coach of the finest workmanship, selling at the amazing price of \$\$1,05. Pricture a handsome, high-grade, cheartfully-finished, hunriously easy-riding, enclosed coach, and you will not overestimate the quality and appearance of the Jeffery Four Sedin. And the Sedan body is easily removed, giving you an open touring ear with aumner too for pleasant-weather touring.

The windows are of three-sixteenths-inch crystal plate, adjustable for ventilation. The curtains are the silk portiere type. The upholstery is grey whipcord—leather optional for seats. Interior



# COMMANDING ATTENTION BY SHEER GRACE OF LINE

When the Jeffery Chesterfield body was announced, it created a sensation in automobile circles. Nothing like it had ever before been seen on this side of the Atlantic. Its lines were distinctly European, yet they have been harmonized with the latest American conceptions of what should constitute the design of a true "style carriage."

Today, in the Jeffery Four, with the most advanced type of Chesterfield body, you are officed a car which has every mark of the thoroughbred — not only in inward mechanical excellence but also in its outward appearance. The lines flow in graceful curves and long sweeps. There is not an angle anywhere. The perfection of balance and symmetry commands immediate attention and admiration. Everywhere you will find the car driven by men and women who have a keen sense of what constitutes true style. It is satisfying in its appearance. Its possession marks the possessor as a man or woman of discriminating taste.

# A NOTABLE ACHIEVEMENT IN THE ART OF BUILDING MOTOR CARS

So it is that the Jeffery Four satisfies alike the engineer and the artist. It combines those virtues which heretofore have been



the peculiar and exclusive property of high-priced motor cars. Its development has covered a period of years. It is an evolution—a final achievement. Nothing has been left to guess-work, nothing has been hastened, nothing experimental has been indulged in, nothing has been stinted. The car is complete, tested, tried, and approved by a critical public.

Its equipment is indicative of its character. The starting and lighting system used is famous for its record in the highest-priced cars. The ignition system is identical with that used by cars costing two and free times the price. The carburetor is noted the world over for its power, economy, and speed achievements. These features are mentioned as an indication of the Jeffery policy, which is not content merely with giving full value, but in sits upon maximum value and maximum quality in recry detail.

The aim has been to build a motor car which would satisfy the tastes of those accustomed to paying \$2,000 and more for an automobile. This aim has been achieved and its achievement is of tremendous significance to buyers of motor cars. Hitherto many of them have been compelled to hold themselves down to a certain price limit—a limit that left then so little choice that they were practically compelled to buy cars whose purchase price was low. Dut this low only because of subsequent high maintenance cost and a lack of comfort, style, and satisfaction. Now, because of the achieve

ment represented by the



Jeffery Four, all motor-car buyers have within their reach a car of standard quality — the Jeffery Four — at \$1,000 — a car which combines moderate first cost and exceedingly low maintenance cost with all the style, comfort, and dependability of the highestpriced motor cars of either Europe or America.

# A GIANT PLANT, AND NOT A DEBT IN THE WORLD-YOUR ASSURANCE OF FULL VALUE AND CONTINUED SATISFACTION





The Jeffery Works at Kenosha, Wisconsin — occupying more than twenty-ziz acres of floor space under roof and a total of one hundred and one acres of land, including the testing trock

Company has been manufacturing a high-grade product for more than forty years. The first motor cars built by the company were put into service in 1902. Always the Jeffery Company has stood for the finest, most advanced ideals of the industry until today, as a direct result of these ideals, the Jeffery Plant covers more than twenty-six acres under roof with a total land area of one hundred and one acres.

The Jeffery dealer organization is one of the most loyal in the business. Aside from additions there have been but few changes. This means that Jeffery dealers are substantial, successful business men who are in business to stay. They are the kind of men whose word you can accept and from whom you can buy with uttmost security.

The Jeffery Company, furthermore, has not a debt in the world. No interest is being paid on bonds—to be added later into the price of the ear. Jeffery cars represent maximum value—the kind of value that only a perfectly organized business working on a big scale can produce.

These are your assurances. They are of vital importance to you, particularly after you have invested your money in your

car. Consider them carefully.

# **Warranty**

This is the standard warranty for motor cars approved by the National Automobile Chamber of Commerce, Inc. Its significance to you as a buyer is not so much its wording as the fact that The Thomas B. Jeffery Company stands behind it.

This is to tettle that we, That Trouca B, Jurrar Consect of Knoola, Wisconia, warrate each even more which manfactured by us, whether passenger car or commercial while, to be free from delects in material and worknashly under roams us and service, our deligation under this warranty being limited and buildin mirror (o) of lays after delivery of such vehicle to the criginal purchaser be returned to us with transportation changes prepaid, and which nor examination shall dischoot no contantifaction to have been thus defentive; this warranty being expendy in live of all other warrantes responsed or implied and some contractions of the contraction of the contraction of the same not particularly and the contraction of the conlaining to the contraction of the contraction of the conlaining to connection with the size of our vehicle.

This warranty shall not apply to any vehicle which shall have been required or altered outside of our factory in any way so as, in our judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence, or accident, nor any commercial vehicle made by us which shall have been operated at a speed exceeding the factory rated speed or loaded beyond the factory rated food capacity.

We make no warranty whatever in respect to tires, rims, ignition apparatus, horns, or other signaling devices, starting devices, generators, butteries, speedometers, or other trade accessories, inasmuch as they are usually warranted separately by their

respective manufacturers.

The Thomas B. Jeffery Company
Main Office and Works, Kenosha, Wisconsin

Builders of Four and Six-Cylinder Motor cars, and the Jeffery Quad—the Truck that drives, brakes and steers on All Four Wheels

