

In the Automobile World

TIMELY TIPS TO AMATEURS

An Efficiency Tip.
When working about the engine, place small parts on a mirror, so they can be easily found when wanted.

Heat Causes Piston to Seize.
Excessive heat will cause a piston to seize or expand to such an extent as to become wedged in the cylinders.

To Clean Commutator of Horn.
Clean the commutator of the horn motor once a month. Hold a piece of clean cloth, moistened with a little machine oil, against the commutator while the horn is being operated.

Value of Visibility.
Clean windshields give the driver a clear view ahead. Every car should have a secondary windshield (rain visor) or windshield wiper which will prevent snow or rain from obstructing the driver's view.

Correct Hydrometer Readings.
A correct hydrometer reading of the battery cannot be taken just after water has been added. If it is

desired to test the battery after putting water into it, run the engine for a few minutes with the ammeter showing "charge." This allows the sulphuric acid to mix with the water, giving a correct reading.

Ethics of the Road.
When attempting to pass another vehicle in the same direction start turning out (to the left) at least 75 feet to the rear. When getting up too close the view of the road ahead is obstructed and there is danger of turning directly in front of another car coming in the opposite direction. When passing a car, do not cut back into the road nor slow down too soon.

Defective Wiring.
Secondary or spark plug wires insulation that is of poor quality or that is cracked are a frequent cause of missing when the engine is pulling. They can often be found by running the handover the wire while the engine is running. If the insulation is not perfect, a slight shock will be felt. Do not touch the spark plug. Frequently a spark leak can be found easier at night, when it can be seen.

Prefer Autos to Drink.
"Voluntary prohibition is coming to pass in England as a result of the

automobile," says Sir Henry Maybury, director general of roads of Great Britain. "The motor industry is developing at the expense of liquor."

Plan Big Convention.
More than 8,000 square feet of floor space will be used for show purposes at the convention and exhibition to be conducted by the National Standard Parts Association at the Hotel Sherman in Chicago in November.

Dobbin Loses Place.
Ancient relics in Plymouth, Mass., are passing with the advent of a busy civilization. The last of the old hitching posts are being rooted out to make more parking space for automobiles.

Balloon Tire Pressures.
To keep balloon tires up to a certain pressure, rather than to vary them according to road and load conditions is analogous to trying to run through the winter or a summer carburetor adjustment. Owing to the tendency to jiggle, a balloon tire should be inflated to its maximum limit when driving over smooth pavements, as in the city. When traveling over rough roads, the minimum limit of pressure should be adopted.

Front End Support.
It is often important to know what type of front end support is in one's car. The popular arrangement is known as a transaxle support. A bearing holds the front end of the motor and allows it to adjust itself to torque, twisting and other conditions. There is provision for lubricating this point with grease and it should not be overlooked.

Cause of Vibration.
Engine vibration in an automobile is the result of numerous causes. It is caused by lack of engine balance, flat bearings, distorted crankshafts, irregular firing, bad valves and ignition too early; short, rigid, high camber springs, improperly lubricated; universal joints badly worn and out of balance; bent and distorted driving and axle shafts; tires out of balance either from faulty construction or from boots and patches.

Time To Pass.
Comfort in driving is largely a matter of knowing where to expend energy. Some drivers take precautions which are quite unnecessary, while others get into trouble by not taking the right precautions at the right time. When about to overtake another car it is important to glance into the rear-view mirror to see whether anyone behind is trying to pass. If several cars have passed from the opposite direction, however, you do not need to glance behind. It is obvious under these conditions no one could be swinging over to the opposite side of the road in an effort to overtake you.

GOOD LUBRICATION ALWAYS ESSENTIAL.

The Radiator Indicator Now Warns Motorist When Motor Overheats.
The action of the oil pump is one of the most important functions in the engine cooling cycle and must be carefully watched or trouble is very liable to ensue.
When the oil pump breaks or becomes inoperative for any reason, oil cannot be circulated throughout the parts that need lubrication. The rubbing steel surfaces then become dry and friction sets in.
During each second in a six-cylinder engine of 3 1/4-inch stroke and 4 1/2-inch bore, the six pistons travel a combined linear distance of 195 feet, rubbing over a total surface area of 165 3/4 square feet per second—or 9,945 square feet per minute!

The important function of the oil pump is apparent then as this large area must be adequately lubricated.
—Before the invention of the heat indicating device placed on the radiator cap, the motorist, of course, was not to blame if his engine burned out or the cylinders became scored. But since this instrument, which signals the driver when his motor is overheating, has been placed on most automobiles, such an accident from this source is almost inexcusable.

VAGARIES OF GASOLINE.
Almost every motorist has noticed that for no apparent reason at all an engine will run from one extreme of performance to another, although everything will seem to be in proper running order. Many owners lately have tried making different adjustments of the carburetor when noting engine peculiarities, but without success.
The answer to this perplexing problem lies in the fact that the engine is subject to the vagaries of the fuel used in automobiles. It doesn't take any particular experience in driving to know when there is water in the gas, but the newer and more complicated peculiarities of gasoline can cause no end of perplexity. One of these is the too well rounded intake manifold which encourages condensation of the gas at certain speeds, thus reducing the mixture to nearly straight air momentarily. The engine gives a little back, or skip, for no apparent reason.

AUTO AND RAIL HAZARDS.
The railway hazard on a mileage basis is nine times greater than the automobile hazard, according to statistics made public by the American Automobile Association.

The statistics are based on 1923 figures, the last for which complete records are available.
During that year railway accidents accounted for 6,922 deaths and 56,464 injuries, a total of 63,386 killed and injured.
The total train mileage, freight and passenger, was 1,191,397,000, showing approximately one accident for every 18,000 miles.

In the same year the accidents in which motor vehicles figured accounted for 17,009 deaths and 500,000 injured, a total of 517,009.
A total motor vehicle mileage for the year is estimated at 850,000,000,000. This would mean one motor accident for every 160,000 miles.

An axle without protection is sure destruction to its bearings.

When Safety depends on Tires as well as Brakes

Slippery pavements—the sudden warning to stop—brakes instant, unflinching response because the car is shod with Full-Size Gum-Dipped Balloons.

Think what this traction and safety mean in fall and winter driving—over wet roads, muddy grades, snowy stretches or detours.

In developing the balloon, Firestone went to the very foundation of tire building, changing all vital elements—size design, cross section, sidewall, tread and air pressure. Real balloon tires must have light, strong, flexible

walls. Gum-Dipping, the Firestone extra process, gives this extra strength to endure this extra flexing strain.

Over two years of real service by thousands of motorists have proved the soundness of Firestone engineering. The principles which underlie this development have never been altered from original plan.

Be ready for driving anywhere this fall and winter. Have the Firestone dealer equip your car with Full-Size Gum-Dipped Balloons, and enjoy the safety, comfort and economy of these wonderful tires.



General Offices and Factory: Hamilton, Ontario

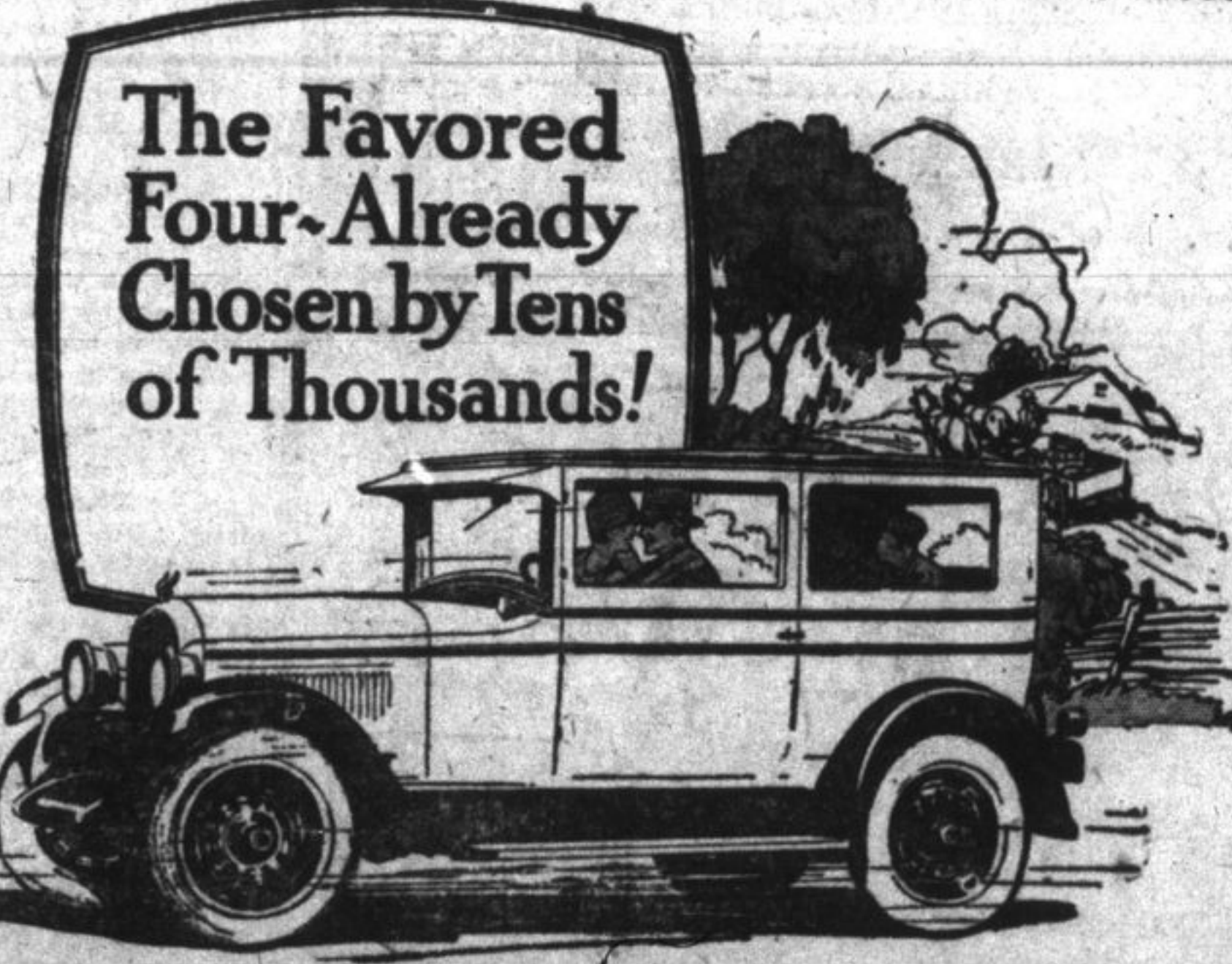
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Bearing the same standards of surpassing value which characterize its companion car, the famous Chrysler Six; built by the same skilled Chrysler craftsmanship and of the same high quality of alloy steels; of the same distinctive beauty of color and line—little wonder that the new Chrysler Four is sweeping the country.

Literally sweeping the country, for Chrysler production has been forced by public demand in Canada and the United States to the great total of more than 800 cars per day.

Tens of thousands of new owners have chosen the Chrysler Four in the four months since its announcement in comparison with both fours and sixes of equal or greater price.

So velvety smooth is its power flow even at the lower speeds, so lightning-like its effortless acceleration, so free from resonance and any sense of vibration, that the Chrysler Four is acclaimed as the ultimate development of the four-cylinder principle.

To ride in this car is to want it. We are eager to have you see it—ride in it—drive it! Let your own eyes tell you of its beauty. Test its supreme performance and its inviting comfort.

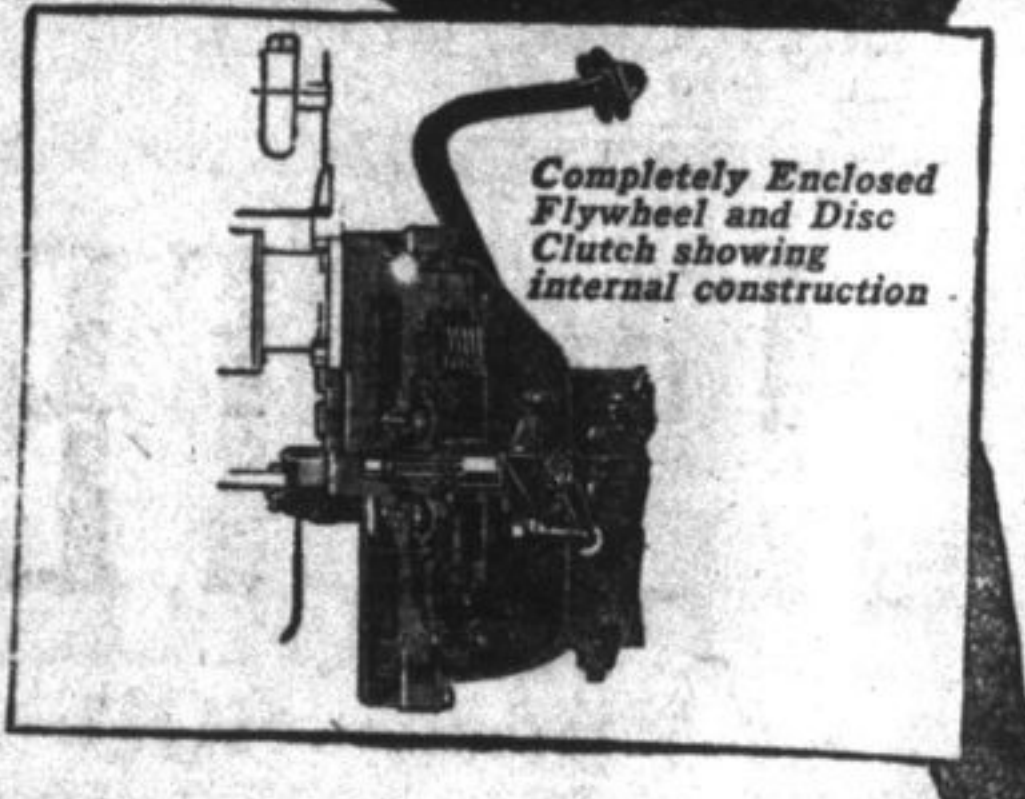
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CHRYSLER FOUR

CHRYSLER FOUR—Touring Car, \$1240; Club Coupe, \$1385; Coach, \$1460; Sedan, \$1525. Hydraulic four-wheel brakes at slight extra cost.
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Radio by Fisher on all Chrysler enclosed models. All models equipped with full balloon tires.
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All Chrysler models are protected against theft by the Federal patented car numbering system, exclusive with Chrysler, which cannot be counterfeited and cannot be altered or removed without conclusive evidence of tampering.

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An important fact about **CHEVROLET**



THERE is a new type of clutch in the New Chevrolet. It makes gear shifting easy—it starts the car smoothly; a light pedal pressure operates it—it has more than a thousand pounds pressure action, delivering all the power to the rear axle without slippage—it is fully enclosed—it is simple—it has no internal adjustments—it requires no lubrication—what more can be wished for in any clutch?

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THE TRUTH ABOUT THE USED CAR BUSINESS

Not so very long ago nearly every used car deal was a gamble.
In the first place, the dealer often paid too much for the used car in order to sell the owner a new car.
In order to get his legitimate profit from the new car deal, the dealer then had to sell the used car for at least as much as he paid for it. The actual value of the used car had little or nothing to do with the deal at any stage of the proceedings.
The man who bought the used car had to be a gambler—sometimes he was lucky—most often not.
But you don't gamble on a used Ford, bought from an authorized Ford dealer. The price paid by the Ford dealer for all used Fords is set by the Ford Motor Company of Canada, Limited.
This price varies only according to the type of car and the date of manufacture.

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