

In The Automobile World

HOW MOTOR CAR SERVES FARMER

Used rightly the automobile is a fine thing on the farm. It cannot be used for the same purpose as a Clydesdale horse, a milch cow or a fat pig, and it will not bring in a revenue in just the same way, but it has, however, a place to fill, and if used with the same judgment that one would expect to exercise with the other farm equipment in order to secure a reasonable income it will fill that place just as well as any one of the others.

No doubt many people have the idea that the auto on the farm serves no purpose other than a plaything. This is not the correct view of the modern car. It bears about the same relation to the general farm management and operations that the telephone bears to the home and who for a moment would think of doing away with that great convenience? Certainly not the one who has been in touch with it and who knows and can appreciate its many phases of usefulness. So it is with the car. It is the quick-message work or the speed-up job where the auto comes in to do its part in the farm economy.

There are always more or less light jobs to do which, in order to accomplish successfully or to work out at a profit, must be done quickly. For instance, a five-mile trip must suddenly be undertaken. The teams are away or at work and would be too slow anyway. What can be done? No way to go. But wait. What about the auto. And almost before you could think about hitching up a horse, the car is half-way toward the end of the journey. The auto has saved the situation.

Again, the binder breaks down on a busy day—no repairs less than ten miles away; no more work for half a day. But, hold on, the auto! The horses are tied to the fence; a speed-up trip is made to the agent, and the binder is again running at

full speed within an hour. Ah, wonderful. Who says the car is only a plaything.

TIRES IN SUMMER.

Tire Expert Says Pressure Should Not be Reduced.

S. W. Johnson, manager of Good-year Service Department, in speaking of the care of automobile tires in summer, says: "With the return of summer come the days that are costly to thousands of motorists, due to the belief that prevails among hosts of car owners as to the effect of hot weather on automobile tires. It is surprising how many motorists believe that in hot weather the air in a tire expands to the danger point. Why this wrong impression should have gained such wide circulation is difficult to explain. It is true that, on a hot day, the air in a tire expands somewhat—but so slightly as to be negligible in its effect. Internal tire heat does not result from the temperature of the outside air, but from the constant bending of the tire as it rolls along the street. And no season is exempt. Whether in winter or summer, tires generate the same degree of heat. In winter the effect is not so prominent because of the more rapid equalization of temperature within and without the tire.

"The modern pneumatic tire appears to be a pathetically frail structure to many car owners—so the advent of a hot day is a signal to them to reduce air pressures. Tires are not so fragile, they are built to withstand four and five times recommended pressures. Recently a boy attempted to inflate a set of tires on his father's car with an air hose, and had actually put 400 pounds air pressure on one tire before the tire burst. When tires are run under-inflated in hot weather to combat air expansion, there is increased bending or flexing of the sides of the tires, which, incidentally, creates more heat—which is just the condition to avoid. Soon the strength of the cotton fibres is broken down and the motorist is treated to the unwelcome sound of the blowout. Whatever expansion occurs in a tire while running, is lost again after the car has stood for a short time—and if air has been removed from the tires in the meantime, they are then subject to all the dangers of under-inflation. Hundreds of tests have proved that no tire is in danger of blowing out because of hot weather expansion of air, when tires are inflated to recommended pressures. Motorists should refuse to be misled by the hot weather theory, which has cost motorists of the continent millions of dollars."

A SERVICEABLE TRUCK

Attached to a Small Car, It Carries Big Loads.

It is the belief of experts that the one-ton Smith Form-a-Truck attachment in combination with a Ford, Chevrolet, Maxwell or the one-and-a-half ton truck on a Dodge Brothers chassis or other cars of similar size, will prove a big factor in the rapid transportation of men and supplies on the European battlefields.

The use of the trucks constructed in this way is not new. When General Pershing's column went into Mexico, a big number of trucks were used. Experience showed how vitally important it is that a truck first of all must be simple. Complicated construction increases the chances of the truck getting out of order; and, of course, makes repairs difficult and time-consuming.

The Smith Form-a-Truck's sturdiness and durability was demonstrated on the Mexican border as it will be in the European battlefield in the present war. In the truck made by combining any one of the mentioned cars with the Smith Form-a-Truck attachment, simplicity reaches its height. The truck will comfortably carry fifteen men, or a ton and a half of supplies, at a speed of 15 to 20 miles an hour on city streets; and from 12 to 15 miles an hour on country roads is easily attained.

NEWEST NOTES OF SCIENCE

Opossums are raised for their fur on some farms in Australia. Boiling hay in water in iron kettles will remove rust from them.

A shadow on the ocean 50 miles long is cast by the peak of Teneriffe. Vacuum cleaners for automobiles, operated by their engines, have been invented.

A Frenchman is the inventor of a cane that can be taken apart and rebuilt into a stool.

A new holder for the ends of clothes lines holds them tight without the necessity for tying knots.

Peru's petroleum is said to rank next to Russia's in its suitability for producing high grade lubricants.

If all the land above the sea level were spread uniformly over the world it would form a shell about 650 feet thick.

It has been estimated that one waterfall in Iceland can be made to produce 60,000 horsepower and another 50,000.

Four hour hands feature a new watch to tell the time in all four zones into which North America is divided at once.

A German clock maker is the inventor of an attachment for alarm clocks to awaken deaf persons by jarring their beds.

The edges of a recently patented shovel are reinforced and sharpened so they can be used to cut roots or buried wood.

According to a French expert the chance of mistake in identification by finger prints is about one in 17,000,000,000. A device that automatically closes as it is lifted has been invented for unobtrusively removing crumbs from dining tables.

Under the direction of two experts from the United States, China will establish a school of forestry at Nanking University.

A Californian has designed a lawn mower than can be substituted for the front wheel of a motorcycle and thus be run by power.

London's annual fall of soot, according to careful estimates, amounts to from 25 to 35 pounds for each inhabitant of the city.

A combined seat and dam has been invented which may be inserted into a bath tub to confine the water to one end when desired.

Engineers of a European railroad have built a machine for weighing locomotives that provides a separate scale for each wheel.

According to a Yale scientist climates that are stimulating have an effect in increasing the suicide rates of some nations.

Extensive deposits of copper and rich but much smaller deposits of gold have been discovered in Russian territory in Central Asia.

Canvas trunks with transverse grips made of rope have been invented to help automobiles get out of mud holes with their own power.

Ultraviolet rays have been produced by a European scientist by placing magnesium, aluminum, zinc and calcium in a gas containing oxygen.

An Illinois inventor has patented a harrow attachment for gang plows to enable a farmer to do his plowing and harrowing at the same time.

At a time when other lands are running short of woods suitable for lead pencils, a new wood that can be so used has been found in Africa.

What practically is a miniature dark room has been invented to enable the candling of large quantities of eggs to be done in full daylight.

Using electro-magnates French scientists have invented a way to sustain the vibrations of piano wires to increase the sonority of pianos.

Controlled by four automatically operated valves, a lawn sprinkler has been invented that throws its water in different directions in turn.

Modern attempts to perfect automobile artillery have brought to light the fact that a Frenchman invented a self-moving gun carriage in 1769.

A window lock has been patented that attached to a lower sash, prevents the sashes rattling and holds

them immovable even when partially open.

There is a breed of cattle in the Samoan Islands the bulls of which seldom weigh more than 200 pounds and the cows seldom more than 160 pounds.

Coins placed in a change holder intended for public places complete an electric circuit and cause a picture or advertisement to be illuminated.

One European city has an automobile that can be used as a fire engine, a street-sweeper or sprinkler or as a freight truck of six tons capacity.

For hotel use there has been invented a cabinet to hold towels, so constructed that each guest can have a clean one but none of them can be stolen.

According to the department of agriculture the raising of rabbits for their fur alone in the United States cannot be done profitably with any known breed.

A New York inventor's wheeled serving tray can be elevated to any convenient height and its top slid to one side for the use of bedridden invalids.

Forcing plants by immersing their branches and leaves in hot water while the earth is kept dry has been found very advantageous by a German florist.

For grouping small flags about the tops of lamp posts a bracket has been invented in which the staff of each flag helps support the staff of another.

An automobile tire of British invention that is said to be almost as resilient as rubber is made of several metal bands, separated by aluminum blocks.

So that baggage cannot fall out on passengers' heads, a new rack for railroad cars is almost completely enclosed, access being provided by sliding doors.

Apparatus for the treatment of gas victims has been invented that supplies them with air that has been mechanically cleaned by filters and then made chemically clean by electric light.

Gray-Dort Head to Tour West.

R. Gray, president of the Gray-Dort Motors, Ltd., contemplates making a western trip the first of next month, with the idea of going over the western provinces, thoroughly sizing up the crop conditions. The company has experienced phenomenal success this past season in the west, due to the general approach of the car by the prairie people, and Mr. Gray hopes to be able to estimate what the proposed manufacturing increase should be for the next season, to take care of the ever-increasing business. He will be accompanied on the trip by J. P. Byers, secretary-treasurer of the company.



One Gallon of Gasoline has done it.

36% To 68% More Mileage

20 to 25 miles to a gallon of gasoline is a frequent occurrence with the Ford car. One man (name on request) reports an average of 33 miles per gallon for 20,000 miles. Surely this is a record that few, if any other makes of cars ever equalled.

It demonstrates the economy of owning and driving a Ford. You can average 1000 miles more travel on Ford-size tires. The saving on oil and repairs is proportionately large. The name "FORD" stands for lowest cost and greatest service.

The Ford is truly the Universal Car.



- Runabout - \$475
- Touring - 495
- Coupelet - 695
- Town Car - 780
- Sedan - 890

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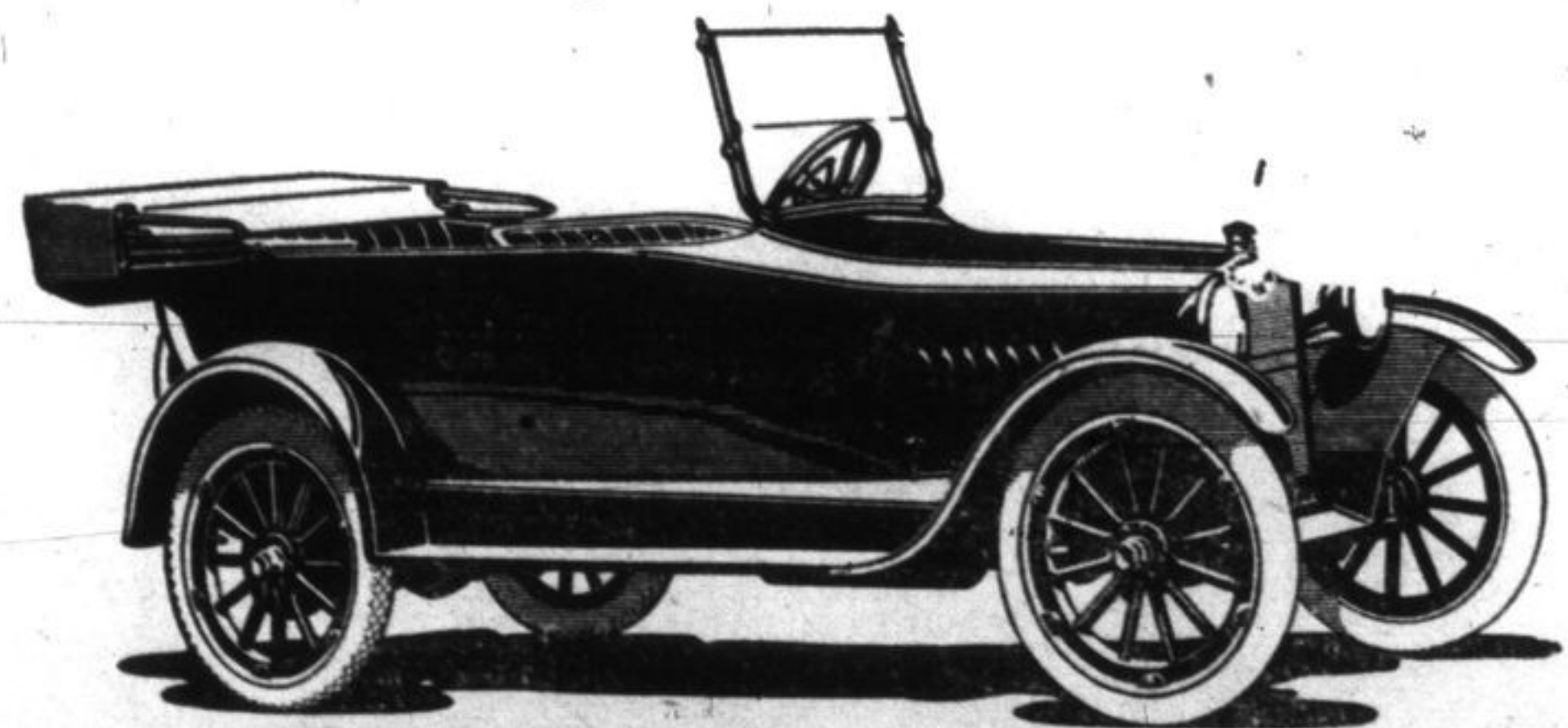
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IS YOUR CAR INSURED?
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Smith Form-a-Truck \$450 F.O.B. Toronto



Save 20 Acres and \$300 a Year

Whenever you do away with one horse you add the equivalent of 20 acres to the capacity of your farm. Government statistics prove it takes 20 acres to feed one horse. Do all your hauling and the same amount of work you now are using horses for and turn the acres that you feed your horses from into acres to raise profit-making crops for you.

The profits you take out of the acres saved for crops by using Smith Form-a-Truck to do your farm hauling will easily put \$300 into your saving every year. And you will get in addition a tremendous saving in time. For Smith Form-a-Truck will get to town and back in 1/3 the time it takes horses. Use this time in town or home with your family. Don't get up before sunlight and stay out until after dark. You can do in the morning between six

and noon with Smith Form-a-Truck what it takes from four in the morning until nine at night with horses. When you have extra heavy loads to haul, instead of taking horses away from actual farm work and sacrificing plowing, cultivating or other useful work in the field you can put the extra load on the Smith Form-a-Truck, use only one man for the trip and save all this additional expense.

Use Any One of Six Chassis

Using any one of six chassis, Smith Form-a-Truck combines with any Ford, Maxwell, Dodge Bros., Buick, Chevrolet or Overland chassis to make a fully guaranteed one-ton truck. It gives you real truck construction that will stand up under the hardest hauling you could ever do.



The heavy portion of illustration shows the Smith Form-a-Truck attachment, which carries 90% of the load, bolted to the power plant with a vice-like grip.

When You're in Town Drop In When you are in town drop in and see Smith Form-a-Truck. It will pay you well.

W. F. KELLY OIL CO.
Cor. Brock and Ontario Streets
Phone 486.