

KNOWLEDGE OF CAR HELPS CUT OPERATING COST

Automobile Dealer Thinks Owners Could Conserve to Marked Degree Through Study of Construction.

"Every owner will find it to his advantage thoroughly to know his car, the inside workings, the proper care of its under-the-surface parts, as well as to familiarize himself with what it will do under all driving conditions," says Carl Changstrom of the Standard Motor Car company.

"To a great extent a car's efficient performance and economy of operation depends on the owner's technical and driving ability. You hear of this car making an endurance record, or that car an economy record, and another car 'getting through' where others have failed. Pretty often such performance is due to the man or woman knowing the car, what it will do, and what it will not do.

"Right now the public press is full of articles and editorials telling how Uncle Sam is badly in need of men, and women, too, who know how to drive and properly take care of automobiles, commercial cars, motor ambulances, etc.

"That is another reason why I think it would be a splendid idea for every automobile owner to pass a strict examination as to ability to properly handle and take care of a car. The United States would then have an inexhaustible army of experienced and trained motor drivers, not only more than sufficient to meet all needs of the government 'over there,' but in the great industrial army 'over here.'

Motor Flexibility Important.

"Another important matter every owner should pay attention to is that of developing motor flexibility. Much has been said relative to the throttling down of an automobile engine. To the casual observer, the ability of a motor to run smoothly at two miles an hour in high gear, without 'knocking' or 'jerking' may seem of little importance, but in reality it means reducing to a minimum the necessity of shifting gears, thereby reducing wear and strain on it.

"Through the constant shifting of gears the mechanism receives unnecessary hard usage. Thus if the motor can be throttled down to the point where it is almost unnecessary to shift gears unless a steep hill is encountered, it will stand up much longer and run much quieter. Noisy motors and rumbling timing gears can usually be traced to the habit of improper and unnecessary shifting.

Skidding Not Necessary.

"Another important result of owners knowing their cars is the ability to stop sliding or skidding, affecting a great saving in gasoline consumption and tire wear, as well as eliminating a cause of trouble.

"If the tires lack a sidewise grip, skidding results. It sometimes happens on a dry road, but that is generally due to excessive speed, especially in rounding corners. Usually it is most bothersome on a wet pavement of asphalt or other smooth material.

Watch Your Brakes.

"Often owners find that their cars skid nearly every time they put the brakes on, especially on a wet pavement. The cause of this is usually both brakes not being adjusted to the same tension, one taking hold sooner than the other, causing a retardation of one wheel, which naturally wears off the tread, and tends to cause the car to swing around because of the one-sided resistance.

"Sometimes, however, the same thing happens when the brakes are adjusted alike. In this case, two things may be wrong. The driver may be applying the brakes too suddenly or the brakes may be locked.

"Owners will be surprised how much easier they will be able to handle their cars, how much more proficient at driving they will become, as well as get much more efficiency and economy out of their cars if they are on 'speaking terms' with such driving pointers as hinted at above."

Angora Goats Furnish

Cadillac Upholstery

"It's a lucky soldier whose wife, mother, sister or sweetheart knits for him a sweater or a helmet of Angora wool. For the fine, long Angora makes the warmest, closest and softest of garments, asserts J. H. Hansen, of the Jones-Hansen Cadillac company. "Most women knitters know this, and most of them feel that, except for a very special bit of knitting, Angora wool is too costly for them to use.

"But Angora is not too costly for the Cadillac Motor Car company to use for upholstering the interiors of its enclosed cars. It forms the base of the mohair velvet which is found in Cadillac limousines, broughams, town cars and landaulets.

"The Cadillac company has found that no other material quite matches Angora mohair velvet in beauty, durability or cleanliness. None of the original luster of the long, silky wool is lost in the preparations which precede its weaving into fabrics. When the velvet is completed, it has a pile which it is impossible to crush flat. Hence all the wear comes on the ends of the individual fibers, and even in hard use is so slight that it is not perceptible. Pullman and other high class railroad cars have their chairs upholstered with mohair velvet. A car seat that had been in constant service for 24 years was recently exhibited by one of the railroads. Having a pile, dust settles into it, does not show on the surface, and at proper times and places can be removed by air blast, vacuum cleaner or brush."

Boord Says Demand

Heavy for Motorcycles

Although many motorcycle enthusiasts are now in the service of Uncle Sam, Sam Boord of the Omaha Bicycle company reports this the greatest year in all his business experience in point of motorcycle sales. This proves that the motorcycle is gaining in popularity every year, not only from a pleasure standpoint, but from a business utility as well.

"The factory output of the 'Indian' has been restricted by the war and in view of this fact Mr. Boord was very much elated on receiving a carload of them the last week.

TIMELY HINTS FOR WOMEN

R. W. Hayward, Chevrolet Distributor, Says Hints for Women Drivers Avoid Trouble.

WHO OPERATE THEIR CARS

There is nothing very difficult to understand about driving the modern car. The trouble is, it is not explained to a woman in terms she can fully understand, and it all sounds very mysterious. I will try, therefore, to give as plain an explanation of the intricacies of the gasoline motor as possible.

The power is obtained by using the expansive property of gas, made from a mixture of gasoline and air. This mixture is automatically prepared in the carburetor, and drawn into the motor cylinders by suction—in the same manner as in a common pump—and there exploded by an electric spark. The expansion of gas caused by these explosions can only take place in one direction, that is down. The piston, which corresponds to the plunger of a pump, is, therefore, forced down, and its power-stroke used to revolve a shaft that turns the wheels.

The cylinders—say there are four, for example, each with its piston and other mechanism—are so arranged that when one cylinder is exploding and giving a proper stroke, another is sucking in a charge of gas, a third is compressing its charge and a fourth blowing out its exploded gas.

The reason, therefore, that you have to use the self-starter is to pop off the cylinder that is ready for work so that it will bring along the next of its working stroke, and then the next, and so on. When the system—or cycle, as it is called—has once been started it continues automatically.

Ask the dealer from whom you buy your car to carefully explain the ignition system to you, and also to show you how the accumulators are tested and the current switched on and off. Ask that the lubricating system be carefully traced out, so that in starting your car everything that requires it will be properly lubricated. Ask to have the use of the clutch and accelerator made clear, and the action of the cooling system gone over.

The best position for the lever operating the advancing and retarding of the electric ignition should be carefully noted, and the position of the lever operating the throttle valve. I would now suggest that you start and stop your motor several times until this operation can be done without apparent effort. The majority of cars are now equipped with the self-starting device, which renders the operation of starting the motor an exceedingly simple one.

In taking your place in the driver's seat consider your position at the wheel and neither slouch back nor lean too far forward. Assume an easy and natural position with the shoulders erect. It is an excellent practice to spend a little time in the driver's seat and accustom yourself to the positions of the steering wheel and the various levers.

The very first thing to be learned is to steer the car, and this is very simple in itself. The changing of gears should next be learned thoroughly, and to do this the best practice can be had by turning, backing about and

turning around. This should be done repeatedly until there is instinctive response to each condition. The next essentials are use of the spark advance, throttle and clutch. Experiment in different positions until the best results under all conditions are found. The beginner is sometimes mortified to find the reason her car refuses to go is because the brakes are on.

The first thing to be done when starting for a drive is to see that the tanks are filled with enough oil, gasoline and water for the proposed run, and then make sure that all the working parts are thoroughly lubricated. All the wearing parts of the car should be well oiled. You should be particular about having the axle pivots, steering-gear, change-gear levers, brake mechanism and motor liberally supplied with oil.

Opening the throttle slightly, push on the electric switch, and retard the ignition to prevent back-firing. Be sure the change-speed lever is in neutral position; then start your motor. The clutch pedal should be depressed,

the gear lever pulled over till the gear for the first speed is in mesh.

Keep your head about you and be patient. Do not try to master a car in too short a time. Be sure of everything you do. Keep doing the same thing over and over again. Be safe at all times. There will not be anything mysterious about an automobile if you are willing to learn all about it. Practice with your car until the control of it becomes perfectly automatic. Unless you do it you can never trust yourself to do the right thing in an emergency.

Motorcycle Firm Opens New Store on Sixteenth Street

The Nebraska Motorcycle and Bicycle company has opened a new store at 624 South Sixteenth street. This firm distributes Excelsior and Henderson motorcycles and Excelsior bicycles in Omaha.

James C. Van Avery is manager of the company, Roscoe Rawley is secretary and treasurer and James J. Parks is in charge of the service department.

Excelsior motorcycles hold a number of distinctions. The world's economy record, 1622.3 miles on a measured gallon of gasoline, is held by an Excelsior and the Capistrano Hill climb in California has been won by Excelsior machines.

The Henderson holds transcontinental records for runs from coast to coast and from Canadian line to the Gulf of Mexico.

Care of the Battery; Permalife Efficiency

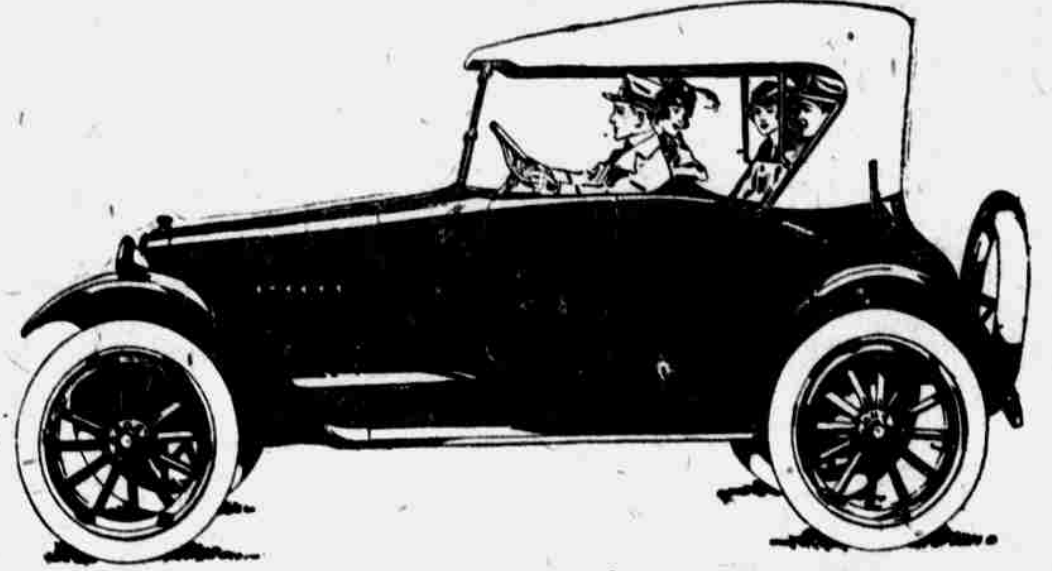
Perhaps no part of the modern automobile is so little understood and so much abused as the storage battery, says H. A. Wendland, service manager of the Auto Electric Service company. Unlike other features of the car, there is no safety device or indicators to safeguard the battery. Other parts of the electrical system are protected by fuses and an electric meter. The oiling system has an indicator or pressure gauge to show if the oil is at the proper level.

Imperfect ignition or faulty bearings at once notifies the experienced driver of their condition by unusual noise; but the storage battery performs its duty silently and uncomplainingly until such a time as it is unable to fulfill its function, which condition is made known by the lights burning dimly or the self-starter refusing to operate. If the driver notes that the indicator on his generator denotes charge when he is running 10 miles per hour or over, and the battery plates are at all times covered with distilled water, his responsibility ceases, yet the battery may be suffer-

ing from overcharge or a too violent rate of discharge, due to faulty starting motor or wiring. Too often, however, the driver neglects to inspect his battery and keep the plates properly immersed. In this event the battery deteriorates very rapidly, and finally requires expensive repairs or the purchase of a new battery.

Sox Schoolboy.

Tom Ray, an 18-year-old pastime of St. John's school, Danvers, Mass., is working out with the White Sox in an effort to land a regular job with the champions.



SPECIAL NOTICE!

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April 10, 1918

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As all other cars, we are obliged to raise the price to retain all the finer points found in the construction of the Saxon line, as well as the best material which the word Saxon denotes in auto building.

The reputation has been made and we desire your attention to this particular date and price change. If you contemplate joining the endless line of satisfied automobile owners.

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(Factory Distributors)

Omaha, Nebraska.

2066-68 Farnam Street.

Westcott

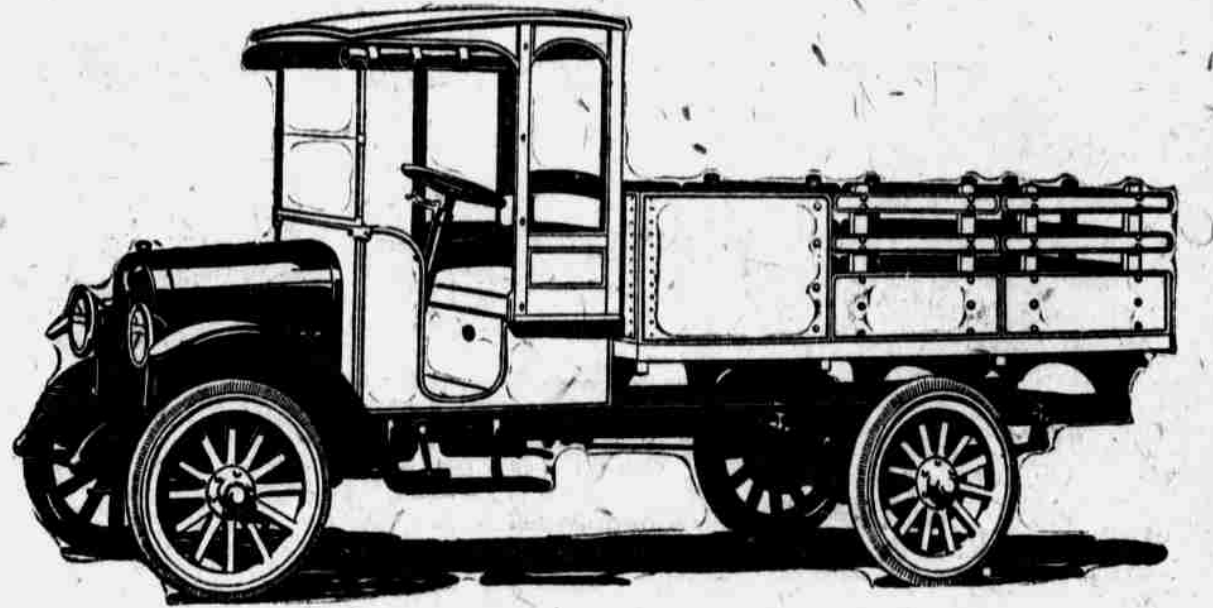
A CARBURETOR especially designed for the motor and having a self-contained priming device makes immediate starting more certain regardless of the temperature. Eliminating the external intake manifold and preheating the gasoline and air overcomes the drawbacks of low grade fuel and makes for gasoline economy. The Rayfield experts, working with the Westcott engineers, have given the Westcott all these aids to perfect carburetion.

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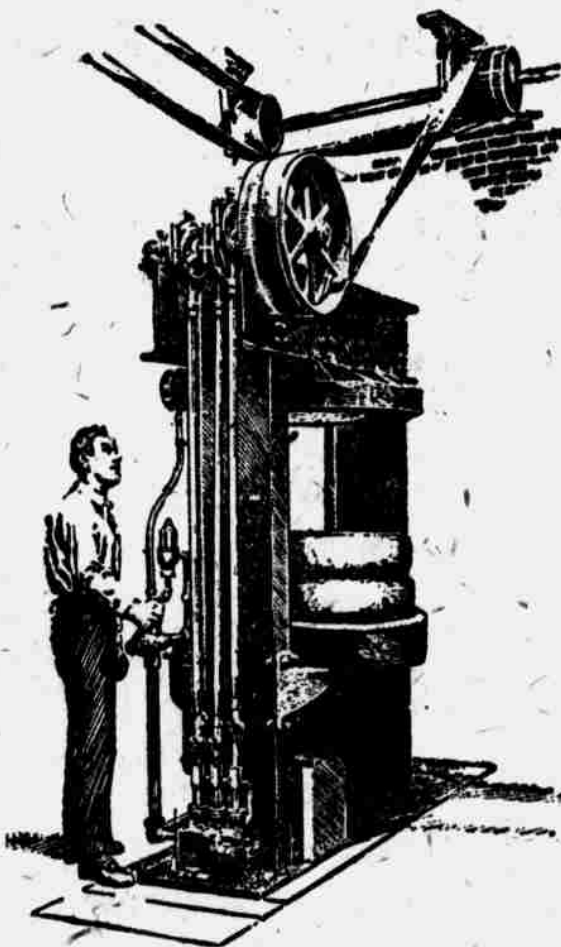
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