THE SUNDAY OREGONIAN, PORTLAND, MARCH 31, 1918.

Learn Use of Throttle, Advises Del Wright.

HINTS FOR DRIVERS

BIG GAS SAVING POSSIBLE

Pacific KisselKar Branch Manager Gives Useful Pointers on How to Avoid Unnecessary Gear Shifting and Save Car.

"Every owner will find it to his adwantage thoroughly to know his car, its 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," said Del Wright, manager of the Portland branch of the Pacific KisseiKar Company, the other day.

pany, the other day. "To a great extent a car's efficient performance and economy of operation depend on the owner's technical and driving ability. You hear of this car making an andurance record, or that car an economy record and another car 'getting through' where others have fulled. Depty atten when performance failed. Pretty often such performance is due to the fact that the man or weaman driver anew the car, what it will do, and what it will not do.

Will do, and what it will not do. "Right now the press is full of arti-etes and editorials telling how Uncle Sam is badly in need of men, and wom-em, too, who know how to drive and take care property of automobiles, com-miercial cars, motor ambulances, etc.

Seriet Examination Proposed.

"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 handle and take care of a car. The United States would then have an inexhaustible army of experienced and trained motor driv-ers, not only more than sufficient to meet all needs of the Government 'over there,' but in the great industrial army over here.

"Another important matter every ewner should pay attention to is that of developing motor flexibility. Much has been said relative to the throttling has been said relative to the throttiling down of an automobile engine. To the casual observer, the ability of a motor to run amoothly 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 attents on it. strain on it.

Through the constant shifting of gears the mechanism receives unneces-sary hard usage. Thus if the motor can be throtisled down to the point where it is almost unnecessary to shift where it is almost unnecessary to anti-gears unless a steep bill is encountered, it will stand up much longer and run-much quister. "Noisy motors and run-bling timing gears can usually be traced to the habit of improper and un-

traced to the habit of improper and un-necessary shifting. "Another important result of owners knowing their cars is the ability to stop aliding or skidding, affecting a great saving in gasoline consumption and tire wear, as well as eliminating cause of danger.

Brakes May Cause Skidding.

"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 round-log corners. Usually it is most bothersome on a wet pavement of apphalt or other smooth material. "Often owners find that their cars

skid nearly every time they put on the brakes, especially on a wet pavement. The cause of this is usually that both brakes are not adjusted to the same



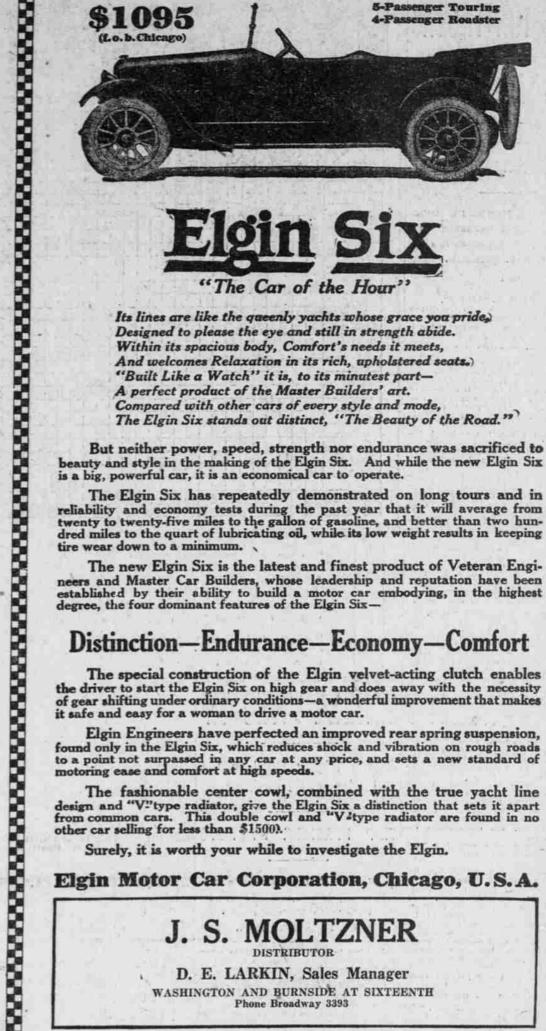


the toughest car of its class on the market.

Explained for Benefit of All Motorists.

Anent tube insertion, one of the first. things to do is to give the bridge nut at the base of the valve-stem, above the oblong metal plate on the tube, a tightening twist with a pair of pliers. The use of pliers is advised in prefer-

market. Move Cattle by Truck. James R. Elliott, of Pendleton, Ind.. has equipped a Maxwell truck with a cattle body and transports livestock from his Pendleton farm to the Indian-apolis stockyards. The distance be-



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As arrangement similar to that made with the Canadian govern-men by Henry Ford & Son is about to be consummated by the state of Michigan with the same company whereby 500 tractors will be sold the state and the latter will distribute them to the farmers wanting them. Henry Ford states he is ready and will-ing to sell a large number of tracters to the state and promtractors to the state and prom-less early delivery. Farmers are flooding the Governor's office with tolegrams urging him to put the deal through. The state has already received several or-ders for the iractors. It is Ford's idea to establish no agencies at this time nor sell to individual this time nor sell to individual users direct: if the Government wishes to supply any state with a quantity of machines he will enter into an agreement with it.

m, one taking hold sooner than The other. This causes a retardation of any wheel, which naturally wears off the tread and tends to cause the car to awing around because of the one-sided resistance.

ing they will become, as well as able to get much more efficiency and economy out of their cars, if they are on 'speak-ing terms' with such driving pointers

as there. ELECTRIC GARAGE TO ENLARGE

Gibson Electric Garage & Storage

Battery Company Expands.

Battery Company Expands. The Gibson Electric Garage & Stor-age Battery Company, pioneers in Port-land in the repair and upkeep of elec-tric starters for automobiles, are en-larging their shop and adding they equipment to make it complete in every detail. This is the only electric garage in Portland, and has convenient guar-ters where motoriata may drive in from the street for battery service. F. R. Hildebrand, president, and Sec-retary Fors, of the company, have the vestigated similar shops and factories in the East and are equipping their plant so as to handle any make of generator or starter that may come to

electric service required by an automobile

The Pennsylvania State Safety and Defense Commission has appropriated 350,000 to purchase 25 farm tractors to be rented to farmers by the State De-pariment of Agriculture at the lowest possible rate. Lioutenant-Governor McClain has been appointed chairman of a commission to make the purchases and announces that orders will be placed immediately. It is expected that more tractors will be purchased as soon as further appropriations are complated.

Akron, the rubber capital of the world, can be gained from a description of the Firestone Tire & Rubber Company. Seventeen years ago the Firestone company occupied a small building with only one-eighth of an acre of floor space, Today the plant has 25 acres of floor space and buildings now under construction will increase this by nine acres.

in repairs. When the company first began the manufacture of automobile tires a day. To-day it is more than 15,000 a day and will be 25,000 when new buildings are colved the traffic officer's signal to go ahead. completed. In 1916 its gross sales amounted to \$25,000,000. This year hey have been more than \$60,000,000 for the year.

Some idea of the vast scale on which the rubber industry is conducted in Akron, the rubber capital of the world.

The company now has more than 10. 000 employes in its home office and factories and 1500 at its branches and in the field.

Housing Problem Big One.

Thousands of workmen pouring into he city every year have brought with hem all the problems of a metropolitan city. The new residents came faster than homes could be built for them and soon Akron found itself with real big city housing problem on its

ands Facing the problem squarely, the rubber companies realized that if they were to keep their workmen happy at

their jobs it would be necessary to pro-vide homes and clean, healthful liv-ing conditions. The Firestone Tire & Rubber Company was one of the first resistance. "Sometimes, however, the same thing happens when the brakes are adjusted ling conditions. Rubber Company was one of the first Rubber Company was one of the first Rubber Company was one of the first to take a forward step in the move-ment. In one year the company opened up a large allotment of homesites for its employes, built a clubhouse, pro-vided a weifare fund of \$1,000,000, built a thoroughly equipped modern hospi-

plying the brakes too summerly brakes may be locked. "Owners will be surprised how much easier they will be able to handle their cars, how much more proficient at driv-tal and employment building and made more than 30 per cent of its workers in the business.

Firestons Park a year ago was a 500-acre farm. Today it is laid out in de-lightful boulevards, electrically lighted, paved and lined with modern homes.

It is not merely an allotment, but a

It is not merely an allotment, but a carefully planned and well-laid out community. There are schools, churches, stores and a public park, all provided for in the original plans. The lots are large, with plenty of room for a garden and for children to play.

Vision of Firestone.

Viaion of Firestane. It was the broad vision of H. S. Fire-stone, president and founder of the company, which made this community of homes a possibility. Within the main group of factory buildings is a large clubhouse, built by the company for its employes. Swimming pool, shower baths, bowling alleys, harber shop, restaurants, rest-rooms and reading and writing-rooms are in almost constant use, while the arge auditorium, ballroom and banquet targe auditorium, ballroom and banquet paint so as to name any make of arge auditorium, bailroom and banquet generator or starter that may come to hall is engaged several nights a week. Guarding the health of the workers sentative for the Electric Auto Life is one of the most important functions of the employment department. New employees are given a thorough exam-ination before they are accepted and are given medical treatment free whenor the employment department. New imployees are given a thorough exam-ination before they are accepted and are given medical treatment free when-every they call at the hospital. For this work a large staff of physicians

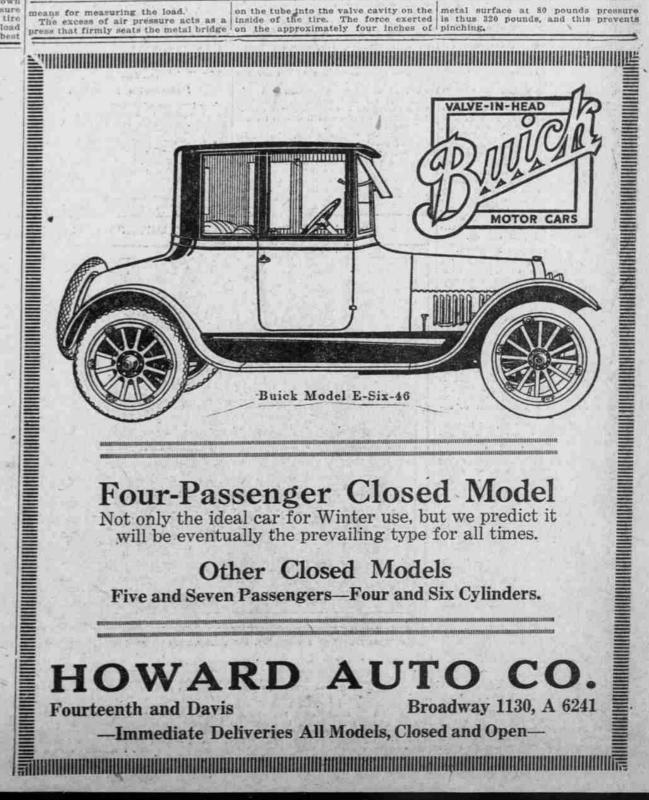
Pennsylvania Buys Tractors. The Pennsylvania State Safety and ploye are examined every three montha

Dersal, manager, of the Motor Sales

a low times to seat it. Only after the tire is mounted and fully inflated—in fact, it is advisable to have it slightly over-inflated—is, the time to fasten securely the rim, nut, which works around the valve stem above the rim.

With this nut firmly tightened down against the rim, the surplus pre-may be allowed to escape and the brought to normal contour for the the tir carried. The caliper gauge is the best

The excess of air pressure acts as a ress that firmly seats the metal bridge of the tire. The force exerted on the approximately four inches of prices at 80 pounds, and this prevents is thus 320 pounds, and this prevents on the approximately four inches of prices.





Where the Most Is Demanded of Motor Transportation You Will Usually Find a Federal

Out in the sagebrush, where roads are not the best, trucks come and go, but somewhere, always in the hardest of service, you will find the Federal.

It's a natural conclusion. Every Federal built 25 per cent heavier and stronger than need be for the rated capacity, is bound to make good. It is built with an expectation of abuse, and here in Oregon and the Northwest it gets it.

Just an example is the Redmond-Prineville stage. Trucks pounding over that road with all the freight that goes into and comes out of Prineville have to have the "stuff." These Federals have been on the job constantly for three years. They are ready to go that again.

Better investigate. The Federal was built for the Northwest.

The Pacific KisselKar Branch

