

# POINTS GIVEN ON GLYCERINE USE

Science Editor of the NEA Service Discusses Anti-Freeze Treatment

By Israel Klein  
(Science Editor, NEA Service)  
The rate that was suggested last week in preparing the cooling system for an anti-freezing over the winter was intended more for the use of glycerine rather than any other chemical. For glycerine has the habit of finding its way through the thinnest cracks even more easily than water.

But is the disadvantage of this form of anti-freeze. But it's the only way it can be lost from the cooling system. It doesn't evaporate at low temperature, and it keeps the water from freezing.

But if the radiator is hole-proof the rubber hose connections are good and all links in the system are tightened, this is the ideal anti-freeze.

Glycerine, pure radiator glycerine, can be put into the cooling system in proper proportion for the coldest weather to be expected during the winter, and it will remain there for the rest of the season. There may be warm intervals, there may be sudden freezes, but these will have no effect on the system as long as the glycerine is in it.

The U. S. Bureau of Standards has found another anti-freeze that is said to be even more effective than glycerine. In that not as much is needed proportionately. That is ethylene glycol, a petroleum product which has the advantage of both alcohol and glycerine. But it costs much more than glycerine.

Glycerine mixes easily with water and is kept in circulation by the pump or the thermo-syphon system of cars without pumps. It doesn't injure the radiator or any other part of the cooling system. It doesn't settle either down or up, so as to permit any part of the cooling system to freeze while the engine isn't running.

Alcohol's great disadvantage is that it has a low boiling point and has to be replenished often. All that has to be in the case of glycerine is to replenish the system with water.

Either denatured or wood alcohol may be used, but the former is safer because it isn't poisonous.

Great care must be used in filling the radiator with alcohol. If the car is finished with a quick drying lacquer like Duco. For alcohol is highly injurious to this finish.

If the system overheats, especially during a warm spell, and the alcohol evaporates, there is the danger of its liquid fumes settling on the hood and ruining the finish.

Another disadvantage of alcohol

## OUT OUR WAY



UP ON HIS TOES

By Williams Offers New '72

## Chrysler Model To The Public

Announcement is made by the Chrysler Sales Corporation of the addition to its illustrious new '72' model of a town sedan, and by its manufacturers to be one of the smartest cars ever produced by their factories. In addition to the performance, appearance and easy riding features which have created a record breaking demand for the entire '72' model since its appearance a few weeks ago the town sedan incorporates a number of improvements in trim and finish that give it a distinction all its own.

The quality finish of all cars in the '72' model are found in the new town sedan. Upholstered in a beautiful dark tape all no-hair plush and trimmed in the French pleat style, its unusually inviting interior offers the attractiveness of soft-leather seat cushions and arm rests on each side and in the center of the rear seat. The latter rest swings up and its flush into the back of the seat when not in use.

Other interior appointments include Butler finish hardware, dome light, smoking set in center of the front seat back, swinging robe rack, covered foot rest, windshield wiper, and molded rubber, draft plates around pedals and handcontrols.

The town sedan is finished in Kreslin brown, striped with extra permanent vermillion and gold bronze, with reveals, fenders and

dash guards in black. Wood wheels are standard and are in Kreslin brown, with black, yellow and black drums in black. The car's color is in black 'polished'. Flush type side cowl ventilators are used. Wells for spare tires on both front fenders and a folding trunk rack are standard equipment.

## Champion Selection Called High Tribute

No greater tribute could have been paid Champion spark plugs than the fact that they have been adopted as standard equipment for the new Ford. R. A. Stranahan, president of the Champion Spark Plug Company, said yesterday, commenting on the new Ford car. "This is true because Ford engineers and designers virtually started from scratch, unhindered by anything that had been done before. Every piece of material, part and accessory was selected only after the most exhaustive tests."

Champions have been standard equipment on Ford cars, trucks and tractors for 16 years. Mr. Stranahan pointed out. The Champion X spark plug selected for the new Model 'A' Ford car is identical in type with that used on the Lincoln.

"We will continue to manufacture the Champion X for the Model T Ford, as long as the service demand for them continues," Mr. Stranahan said.

After considerable experience in married life, when it comes to shopping, men pass the buck to the women.

# WINTER DRIVING Calls For Anti-Freeze Solution

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Drive up Today. Tomorrow may be too late to save your radiator.

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## All Gas Tax In Oregon Goes To Highway Board

Frequently in conversation, the question is asked the Oregon State Motor association how the income from gasoline tax is expended in other states in the union. In Oregon all of the gasoline tax money goes direct to the highway commission and is used on the state highway system.

In other states the figures furnished by the bureau of public roads for the calendar year 1926 show that the diversion of the gasoline tax revenue to purposes other than good roads was less than 2 percent of the total amount collected. The diversions occur in five states. In four states, namely, Georgia, Montana, North Dakota, and Pennsylvania, the money was placed in the general state fund, while in Texas, 25 percent of the total collections was placed in the free school fund.

It is understood that the diver-

sions in 1926 will practically be eliminated in all states except Texas, where the constitution provides for the maintenance of free schools through the appropriation of 25 percent of the revenue from all occupational taxes to this purpose. As long as the gasoline tax in that state is in the form of an occupational tax, there appears no way of complying with the law except by setting aside one-fourth of the revenue for the schools.

The total tax earnings on gasoline in 1926 were \$187,603,221, of which \$2,526,597 was diverted to purposes other than roads. The diversions in Georgia and Texas were, respectively, \$1,633,933 and \$1,206,721, while those in the other three states were negligible.

## Popularity Of Chevrolets Is Fast Increasing

Popularity of Chevrolets for official service throughout the country is fast increasing, according to information received from the factory by Avery Harrison, the local dealer. They have been in border patrol use for some time and recently have been acquired by various branches of the public service throughout the country, even the special delivery section of the Portland post office choosing them for its work, and now the Los Angeles police department has purchased 36 in one order.

"After an investigation covering a period of six months, we have learned, Los Angeles police officials have bought 36 Chevrolet touring cars," said Mr. Harrison, the local dealer. "During this period operating costs were made the chief subject of careful study."

"According to the captain in charge of motor transportation in the Southern California city Chevrolets will be used in patrolling and investigating other general police department work. A total of 238 cars are operated in police work in Los Angeles, and as the funds covering their use and maintenance are definitely budgeted and the cost must not exceed the limit, the question of economical transportation is most important."

"Six months ago, the police captain has explained, his department began to check with care the operation costs of several Chevrolets privately by members of the department and of others belonging to persons not members of the police organization. The results are shown in the purchase of 36 cars."

## Attention Auto Owners!

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Leather Welt  
Fisher Channel and Felt Covered Channel

La Grande Construction & Supply Co.  
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THE COMMANDER  
4-Door Sedan  
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JUST two bright keys in a dainty jewel case! But no Christmas package ever held a greater treasure of happiness—for out in the drive stands a smart, trim Studebaker Commander—and those keys make it her own.

What pleasure you'll take in giving her this world-champion motor car—the car that climaxed its championship career by traveling 25,000 miles in less than 23,000 minutes! This dramatic run was made by strictly stock Studebaker Commanders under the supervision of the American Automobile Association. Nothing else on earth ever traveled so far so fast.

Neither she nor you may be interested in the high speed which The Commander is able to maintain for long distances. But you are interested in the sturdy design which made possible better than a mile a minute for a distance equivalent to a circuit of the world. Such stamina spells utmost reliability on your trips across town or across the continent. It means long life, low maintenance cost and superlative service.

There's justifiable pride that you and your wife will take in driving a car which has so conclusively demonstrated its ability as the "world's champion." You'll sense this pride when you step on the accelerator and flash ahead of the crowd; when you "zoom" up hills or "step-out" on the open highway.

And what joy to show The Commander to her friends, for its beauty of line and finish win instant admiration.

Drop in today and we'll give you the Keys. Her Commander will be at your door Christmas Eve or Christmas morning—whenever you say. Then no one's wife will have a happier Christmas than yours!

## NEW LOW PRICES

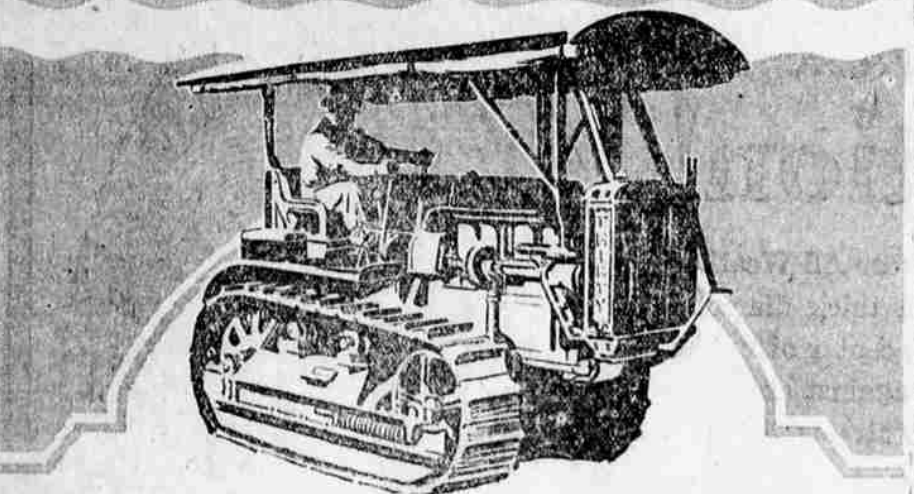
|               |                  |
|---------------|------------------|
| The Dictator  | \$1165 to \$1345 |
| The Commander | 1495 to 1745     |
| The President | 1795 to 2250     |
| Erskine Six   | 895 to 965       |

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Important—The initial payment on any Studebaker or Erskine car, if purchased under the liberal terms of Studebaker's Budget Payment Plan, would amount to little more than the cost of an assortment of the usual Christmas trinkets. If you are interested in this plan ask your nearest Studebaker dealer for particulars. If you have a car to trade in, it may serve as the first payment.



M. J. GOSS



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