

Highway and Auto Dope

# AUTOMOBILE NEWS

Traffic News And Tourist

## COLD WEATHER HINTS GIVEN

Local Automobile Distributor Warns Owners That Cars Should Have Special Attention.

(By M. J. Goss)

(Local Studebaker Dealer) Cold weather's approach should turn the attention of every motor car owner to the care his car should have.

Without waiting for a sudden freeze to burst radiators, stop up the lubrication system and destroy the storage battery, those parts of the car should be given immediate attention.

Before any anti-freeze solution is used, the water circulation system should be drained thoroughly and flushed, and any leaks repaired. This is a good time to change hose connections if they are worn out. Use no anti-freeze solution that contains calcium chloride or any similar compound; these corrode the inside of the radiator. A very satisfactory anti-freeze solution is one of alcohol and water—denatured alcohol preferred, though wood alcohol is satisfactory. Watch wood alcohol! If it contains acetic acid, don't use it, for it will corrode the radiator.

### Alcohol Table

This table shows the proportions of alcohol to use for different temperatures, showing at what degree each proportion will freeze. When replenishing the cooling system, use a mixture containing a slightly

larger proportion of alcohol. Will begin to freeze at

Alcohol (volume)	Water (volume)	Will begin to freeze at temperature of
10%	90%	27 above zero
20%	80%	15 above zero
30%	70%	10 above zero
40%	60%	2 below zero
50%	50%	18 below zero

Distilled glycerine may also be used in preparing an anti-freeze solution. The initial cost is greater than alcohol but it has the advantage of not evaporating, so that in a season's running it is likely to prove less expensive than alcohol. Be sure to use distilled glycerine and not the ordinary commercial grade.

### Glycerine Table Given

If it is desired to use glycerine, it should be mixed according to the following table:

Distilled Glycerine (volume)	Water (volume)	Begin to Freeze at (Degrees F.)
15%	85%	20
25%	75%	10
35%	65%	0
45%	55%	-10
55%	45%	-20

Buy the alcohol now and put it in the garage, ready, so it won't be forgotten. In coldest weather, if the fan belt is loosened a little, it will slip some and due to its inactivity will help to keep the motor running warmer.

Use a radiator cover in colder weather, with an opening in front which can be regulated for milder days.

Pull the carburetor choke all the way out in starting, run the engine at a rate which would not exceed 20 miles an hour on the road until warmed up. Do not race it.

### What Kind of Oil

Use a light, cold-test oil for engine lubrication. Drain oil more frequently than in the summer because cold weather increases dilution. It is well to change oil each

## MCKENZIE PASS CLOSED FOR THE SEASON IS WORD

— (By the Associated Press) —

The McKenzie highway, crossing the Cascade summit at the Belknap crater lava fields, is closed for the winter. The snow packer recently purchased by Road and Hickman, stage operators between Bend and Eugene, will not operate successfully on the crushed rock base of the McKenzie highway, according to information received here from members of the bureau of public roads crew, who have been at the scene of the work for several days. It is said the machine has been returned to Eugene.

It is believed the crushed rock getting in the flanges of the revolving cylinder caused the failure of the machine. The last stage left Bend for Eugene Tuesday, November 18, ten days later than the last crossing made in 1924. The pass was opened for travel about June 15th this year, considerably earlier than usual.

month in winter.

Watch for water in the crankcase in the winter. If left in the oil it will form a sludge and will freeze in conduits and stop circulation of oil. Drain off a cupful of oil every week while the engine is warm but after it has been allowed to stand idle for about 10 minutes. Any water in the oil will be at the bottom and will thus be removed. With Studebaker cars, this can easily be done by means of the convenient drain valve beside the engine which will not soil the hands.

It will be found economical to have the service station give your car a complete greasing with the approach of cold weather. It will be done completely on an oil rack and no important place will be overlooked.

As to the storage battery, remember that its efficiency is cut in half at a temperature of 10 degrees. Also, the motor is harder for the battery to turn over because of the congealed oil inside.

Conserve battery energy by pushing down the clutch pedal in starting. This frees the engine from turning the transmission gears in the congealed oil.

### Two Things of Importance

Two important things to remember about the battery in winter. First, see that all electrical connections are tight and free from corrosion. Second, test the battery with the hydrometer every two weeks. If in two consecutive tests the specific gravity is under 1.200, remove the battery for recharging and inspect the generator to see that it is functioning properly.

A battery not charged will freeze. At 1150 the battery is discharged and it will freeze at 5 above zero. At 1215 it is half discharged and will freeze at 25 below zero. At 1250 it is three-fourths charged and will not freeze until 50 below zero. It is fully charged at 1290 and could not possibly freeze—unless La Grande should have a drop in temperature of about 50 below zero.

Transmission cases should be drained and washed with kerosene, then filled with a mixture of 75 per cent light transmission grease or very heavy transmission oil and 25 per cent heavy motor oil. On a four-wheel-brake car never use a transmission grease or heavy oil, summer or winter. The medium motor oil which was used in warm weather should be drained out; the transmission should be flushed and filled with a light, cold-test motor oil. Drain the rear axle, wash with kerosene and fill with the same mixture as for the two-wheel brake transmission.

In general, watch tires for small cuts into which water will work, freeze and loosen the tire structure. Adjust brakes and see if new things are needed. Oil brake shafts. Adjust steering gear and oil. See that front wheels are aligned.

Then you are ready for winter.

## Standard Oil Company To Assist Aviators

SAN FRANCISCO (Special)—

To assist in the development of aviation and to increase safety and certainty of air travel, the Standard Oil Company (Indiana), following a suggestion from the office of the chief of air service, war department, will establish a widespread system of guide signs for aviators along the airways of the Pacific coast states, giving the Pacific coast its only marked airways and the first of the kind in the country. These signs will take the form of names of towns painted on the roofs of the company's buildings. The army air service will designate points which should be marked. The company will also offer co-operation to the naval air service, the air mail service and commercial fliers.

At first the effort will be clearly to mark the present airways and towns adjacent to flying and landing fields. There are now established airways from San Diego to Seattle and from San Francisco to Reno. Along these routes the company has distributing plants at frequent intervals. The towns on these airways which should be marked are now being selected and the signs will be painted at once. As other airways are developed and necessary requires, additional signs will be set up.

The company has stations at most ports on the Pacific coast, and at these will establish signs for the guidance and assistance of seaplanes. In La Grande the city is placing a "La Grande" sign on the roof of a warehouse.

## ARIZONA MAN PRAISES AUTO

With approximately 105,000 miles to its credit in slightly less than two years of service as a stage coach on the famous Apache trail in Arizona, a Willys-Knight four-cylinder touring car is making an exceptional performance record, state Gettings and Ranka, local dealers.

W. G. Brundage, who operates the stage line, purchased the Willys-Knight from the Overland Arizona company slightly less than two years ago, trading in another car on the deal. Mr. Brundage writes:

"This car has missed but one day of operation on its regular run to Mesa, Chandler and Gilbert, and special runs over the Apache trail and to Tucson and Nogales, and has travelled more than 104,000 miles. Every tire on this car has made more than 25,000 miles, and the car is regularly making twenty miles to the gallon of gasoline.

"When your salesman sold me this Willys-Knight, he took in trade a standard make of car that had cost double the price of the Willys-Knight, and my books now show that I have paid off my present car by the savings over the former car."

Mr. Brundage does not want to

## MORE BUICKS TO BE BUILT

Announcement has been made to Jennings and Shumate, local distributors, that the Buick Motor company has appropriated \$2,000,000 to be used for increasing the production of Buick automobiles to 1200 cars a day.

This action was made necessary because of the great demand for the new Buick models which were introduced in August. The company has found it impossible to keep pace with orders for cars with present facilities.

In October, usually a month when production begins to fall off, the Buick plant strained every effort to meet the flood of orders, shipping 25,000 automobiles from the plant and breaking all monthly records. Just prior to setting this record, announcement was made that peak production would have to be maintained through the winter months to meet the demand for cars.

The company then saw that only by increasing the capacity of the plant could it hope to keep up with orders. The appropriation will be expended for additions to present buildings and for machine and tool equipment, conveyors, etc., to bring production up to the figure of 1200 cars a day and a possible production of 300,000 cars a year.

### SOAP, GASOLINE AND WATER HIT GREASE

To remove grease on the chassis under the car, dissolve into a quart can containing one quart of hot water, one-fourth of a cake of yellow laundry soap cut into thin shavings, after which two or three tablespoons of gasoline are added. Use a stiff, medium sized paint brush, either flat or round, to apply the mixture to all the greasy parts.

### FRICTION TAPE USE SHOULD BE CURBED

It is not advisable to use friction tape on high tension wiring or on any other wiring which may come in contact with grease or oil. Friction tape will not insulate ignition current nor will it stay in place when soaked with oil. It is much better to use linen tape and shellac on high tension wires.

## Proper Lubrication

Your car deserves kind treatment during the cold winter months. Fill up your crank-case with Veltex. Your money back if you are not satisfied.

La Grande Filling Station  
Kuhn & Zweifel

LOOK OVER OUR WANT ADS FOR BARGAINS

## TO BE EFFICIENT— Batteries Must Have The Proper Care and Attention

WE SPECIALIZE IN BATTERY AND ELECTRICAL WORK

EXIDE BATTERIES Distributor

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## Have You Noticed The Superior Finish Of The New Studebaker Closed Models?

Carefully examine the upholstery and appointments—you will find nothing omitted—nothing simply thrown together in a shoddy manner—but you will be pleased with the high-grade material used throughout. All this is possible because Studebaker cars are manufactured and not assembled. One big plant with unlimited resources and enormous facilities is devoted exclusively to making Fine Motor Cars.

You will be pleased with the price, too—one profit is all you pay. Excess value is reflected in every model.

Drop in today. A demonstration will convince you that all we claim for the Studebaker is backed by facts.

# M. J. Goss

Studebaker Sales and Service.

"This Is A Studebaker Year"

# Veltex WINTER GASOLINE

## FOR COLD MORNINGS

The Fletcher Oil Company is offering Veltex Winter Gasoline to the people of this section of the country in order that they might enjoy the same performance from their motors in the winter time as they do in summer.

Veltex Winter Gasoline is especially refined to give you dependable service in cold weather. On frosty mornings when the thermometer is down below the freezing mark this new gasoline will prove a boon to pleasureable driving.

With Veltex Winter Gasoline in your tank your motor will start quickly. You'll have smooth running and plenty of power. Sputtering, back-firing and jerky running will be done away with.

For winter driving, Veltex Winter Gasoline is far superior to ordinary gas, yet it costs no more. Try a tankful today and motor with Veltex satisfaction.

### FLETCHER OIL CO.

VELTEX WINTER GASOLINE is ready now at the following dealers:

Andrews Garage	Imbler	Clyde Kiddle	Island City
Auto Electric Service Co.	La Grande	La Grande Filling Co.	La Grande
Frank L. Baker	Palmer Junction	John M. Lindsey	Island City
Bryant & Bryant	Allice	Mrs. E. S. Norris	La Grande
Elgin Service Station	Elgin	Orchards Camps	La Grande
Gibbons Service Station	La Grande	Oregon Tire & Battery	La Grande
Goff & Flever	Minam	John Wells	Starkey
Grande Ronde Lumber Co.	Perry	A. Page & Son	Imbler

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**WINTER**  
**GASOLINE**  
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