

ELECTRIC FAREDED FOR CITY TRAVEL

Good Reasons Advanced for Increase in Demand for These Cars.

CARE NEEDED IS SLIGHT

If Battery is Given Necessary Attention and Flushed at Intervals Little More is Required.

BY J. L. D. KEPPEY. The electric is fast becoming recognized as the most convenient car for town use and the interest which is being manifested in this type of automobile is growing every day. It is estimated that at least 50 new electric will be placed in Portland between now and the Christmas holidays. People now realize that the electric is reliable and, in many ways, the ideal means of getting about in the city.

The care necessary to keep an electric in good running condition is very slight, but there are details which should be looked after regularly if the maintenance bills are to be the lowest figure. These details often are neglected, causing trouble and inconveniences that can be avoided if negligence does not rule.

The battery is the most important part of an electric car and requires attention. The battery should be kept flushed, that is, the cells should be filled with water or a solution to keep the electrolyte or fluid over the top of the plates.

In this climate a flushing will last a week or 10 days. The time necessary to flush a battery, however, is about 15 minutes and can be done by an inexperienced person. The only caution necessary is not to overflow the cells.

The battery should be fully charged but it is not necessary to charge a battery every time it is used. Sometimes a car is used but a few miles and the battery has been used.

There are various makes of batteries on the market and in purchasing a car it is advisable to see that the battery equipment is of a reputable make, as this has considerable to do with the future service.

The motor of an electric car requires very little attention. The best makes are equipped with anti-lubricating bearings which require attention only in one to three years.

In running the car much better service can be had by careful driving. It is important to be sure that the brakes are released before turning on the power and put on the power one point at a time.

It is important to be sure that the brakes are released before turning on the power and put on the power one point at a time.

KNIGHT MOTORS VICTORIOUS

American Engines Make European Automobile Men Marvel.

Most recent of the strenuous European automobile races the Belgian grand prize over the Ardennes circuit, resulted in a tie between the three teams of the Minerva-Knight type and the Hornes machines. The two-day event comprised 12 rounds over the 20-mile course, a total of 240 miles for the two days.

Among the contestants beaten by the Minerva-Knight were the Lion-Peugeot of French grand prix victory fame; a Mercedes-Knight team, three Opals, three Benzes and three Excelsiors and three-car teams of A. V. A. B. and Vivinus make.

PACKARD FORCE HAS NEW HEAD

J. G. Vincent Assumes Charge of Corps of Engineers.

The Packard Motor Car Company has secured a notable addition to its engineering forces in the appointment of J. G. Vincent to the position of chief engineer. Mr. Vincent becomes the executive head of the active engineering corps with its four subdivisions known as carriage chassis, carriage body, truck and experimental divisions.

Russell Huff, consulting engineer, and C. J. Moore, manufacturing engineer, both of whom have been with the Packard company since the bringing out of the first model, will constitute an advisory body having supervision over all Packard engineering work.

LOS ANGELES-TO-NORTH-YAKIMA MOTORISTS WHO BOOST SIGNPOST ACTIVITY OF PORTLAND AUTO CLUB.



FROM LEFT TO RIGHT THE TOURISTS ARE J. O. LAMB, MRS. H. F. DIERKER, H. F. DIERKER.

NATIONAL AID URGED

Senators Favor Improvement of Nation's Roads.

IMPORTANCE POINTED OUT

Heyburn, of Idaho, Proposes System of Progressive Construction in Country So Highways Will Be of Permanent Kind.

How's Force Increased.

Fred N. Howe, manager of J. W. Leavitt & Co., is congratulating himself on taking away from the Leavitt branch in Seattle Robert Atkinson, one of the liveliest and thorough mechanics.

1912 OUTPUT DOUBLED

MITCHELL DEALERS PREDICT BIG SALES INCREASE.

ROADS ARE IN GOOD SHAPE

H. F. Dierker Passes Through Portland on Los Angeles-Walla Walla Trip—Pacific Highway Is Main Route Chosen.

TOUR BRINGS RESULTS

FARMERS' RELIABILITY RUN AID TO GOOD ROADS.

DO YOU APPRECIATE SIMPLICITY IN A MOTOR CAR?

White Car Agency

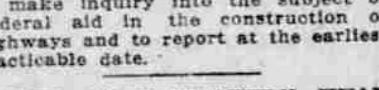
FOR SALE

My Beautiful 20 H. P. Coupe

MR. GATES

Not run one hundred miles. Going away. Will sacrifice.

POPULAR AUTOMOBILE SALESMAN JOINS STUDEBAKER CORPORATION.



William G. Dunbar.

William G. Dunbar, a well-known and popular automobile salesman, will enlarge his field of activity by becoming associated with the Studebaker Corporation tomorrow.

AUTO SIGNS HELP

Tourists Praise Posts Put Up by Portland Club.

ROADS ARE IN GOOD SHAPE

H. F. Dierker Passes Through Portland on Los Angeles-Walla Walla Trip—Pacific Highway Is Main Route Chosen.

1912 OUTPUT DOUBLED

MITCHELL DEALERS PREDICT BIG SALES INCREASE.

ROADS ARE IN GOOD SHAPE

H. F. Dierker Passes Through Portland on Los Angeles-Walla Walla Trip—Pacific Highway Is Main Route Chosen.

TOUR BRINGS RESULTS

FARMERS' RELIABILITY RUN AID TO GOOD ROADS.

DO YOU APPRECIATE SIMPLICITY IN A MOTOR CAR?

White Car Agency

FOR SALE

My Beautiful 20 H. P. Coupe

MR. GATES

Not run one hundred miles. Going away. Will sacrifice.

POPULAR AUTOMOBILE SALESMAN JOINS STUDEBAKER CORPORATION.



William G. Dunbar.

William G. Dunbar, a well-known and popular automobile salesman, will enlarge his field of activity by becoming associated with the Studebaker Corporation tomorrow.

AUTO SIGNS HELP

Tourists Praise Posts Put Up by Portland Club.

ROADS ARE IN GOOD SHAPE

H. F. Dierker Passes Through Portland on Los Angeles-Walla Walla Trip—Pacific Highway Is Main Route Chosen.

1912 OUTPUT DOUBLED

MITCHELL DEALERS PREDICT BIG SALES INCREASE.

ROADS ARE IN GOOD SHAPE

H. F. Dierker Passes Through Portland on Los Angeles-Walla Walla Trip—Pacific Highway Is Main Route Chosen.

TOUR BRINGS RESULTS

FARMERS' RELIABILITY RUN AID TO GOOD ROADS.

DO YOU APPRECIATE SIMPLICITY IN A MOTOR CAR?

White Car Agency

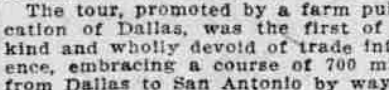
FOR SALE

My Beautiful 20 H. P. Coupe

MR. GATES

Not run one hundred miles. Going away. Will sacrifice.

POPULAR AUTOMOBILE SALESMAN JOINS STUDEBAKER CORPORATION.



William G. Dunbar.

William G. Dunbar, a well-known and popular automobile salesman, will enlarge his field of activity by becoming associated with the Studebaker Corporation tomorrow.

NEW CAR PLEASES

Howe Thinks Toledo Factory's Model Best Ever.

WILLYS' POLICY KEPT UP

"Last Season We Thought Overland Designers Had Reached Last Thing in Moderate-Priced Car but All Outdistanced," Now.

Fred N. Howe, the man who is making Overland automobiles popular in this territory, thinks the latest model turned out at the Toledo factory of John N. Willys is a world-beater in its class.

This is in keeping with the Willys policy of producing each year a model that is one of the sensations of the automobile world.

"The wheelbase on the new car has been increased to 110 inches, while the body has been lengthened and deepened making the car have a more roomy and spacious appearance.

"The hood has been lengthened several inches, allowing the motor to set forward more than it did last season, which makes for greater accessibility.

"Another step forward is the installation of a floating rear axle. The axle shaft is of Carpenter Sampson steel, propeller shaft, cold-rolled steel, the main driving shaft of Calumet steel.

"There has been a noticeable elimination of oiling places, and wherever lubrication is required grease cups have been substituted for oil cups.

"So dependable and reliable has the chassis of Model 59 proven itself that only minor details and refinements have been made.

Bert Dingley, veteran speed devotee of the land, has retired. Not just quit for the season, but stopped for keeps.

DO YOU APPRECIATE SIMPLICITY IN A MOTOR CAR?

White Car Agency

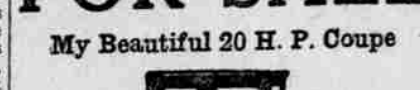
FOR SALE

My Beautiful 20 H. P. Coupe

MR. GATES

Not run one hundred miles. Going away. Will sacrifice.

POPULAR AUTOMOBILE SALESMAN JOINS STUDEBAKER CORPORATION.



William G. Dunbar.

William G. Dunbar, a well-known and popular automobile salesman, will enlarge his field of activity by becoming associated with the Studebaker Corporation tomorrow.

"SOUND JUDGMENT" Says: "Get a GOOD Electric Horn" We Have the Best ARCHER & WIGGINS OAK STREET, CORNER SIXTH

Atterbury Truck Columbia Carriage & Auto Works, Agts. 209-211 Front Street. Phone Main 2892. General Auto Repairing. Bodies and Wheels Built to Order.

AUBURN Auburn Motor Car Co. ROBT. SIMPSON, Mgr. 505-7 Burnside Street A 7939, Main 2674.

BALLOU & WRIGHT Largest Stock Automobile Accessories M. & W., C. & J. and Hartford Tires, Monogram Oils 80-82 Seventh St., Cor. Oak Portland, Or.

MOTORCYCLES INDIAN AND EMBLEM BALLOU & WRIGHT, 80-82 Seventh Street, Cor. Oak

BOWSER GASOLINE and OIL TANKS STORAGE SYSTEMS FOR PUBLIC AND PRIVATE GARAGES S. D. Stoddard, Representative, 305 Columbia Bldg. Main 1470.

Chanslor & Lyon Motor Supply Co. PACIFIC COAST DISTRIBUTERS Stromberg Carburetors, Kelly-Racine Tires, Harris Oils 627 Washington Street, Portland SEATTLE, SPOKANE, SAN FRANCISCO, FRESNO, LOS ANGELES

JOHN DEERE PLOW CO. Northwest Distributors, EAST MORRISON AND SECOND STS. Phones: E. 3887, B 1625.

THE MIGHTY MICHIGAN MICHIGAN AUTO & BUGGY COMPANY East 1421, B 1345 369-371 Hawthorne Avenue

Firestone TIRES Vulcanizing & Retreading. R. E. BLODGETT, 23-31 N. 14th. Main 7005.

NORTHWEST AUTO CO. DISTRIBUTORS F. W. VOGLER, President 617 Washington Street. Phones—Main 7179, A 4959.

PORTLAND RUBBER MILLS, Inc. 362-370 East Ninth Street, South Phone East 2146 WE RETREAD TIRES

PREER CUTLERY & TOOL CO. Headquarters for Shop Supplies and Automobile Tools 74 SIXTH AND 311 OAK STREETS

Western Hardware & Auto Supply Co. SEVENTH AND PINE STREETS. Vulcanizing, Hardware and Auto Supplies. Phones: Main 8823, Home A 2016.

Maxwell GLIDDEN TOUR WINNER. ALWAYS IN THE LEAD The Car of Proven Durability, Economy and Reliability. UNITED AUTO CO. 525-28 Alder Street. Phones—Main 4337, A 7171.