

**HERE ARE SOME POINTS
MOTORISTS SHOULD HEED
TO AVOID BATTERY ILLS**

**Fourteen Suggestions Offered,
Last One Being That When
Fully Charged Battery, Safe.**

1. To insure continued efficient performance of a storage battery of the conventional type as incorporated on pleasure vehicles and electrically equipped trucks, the following points should be strictly observed says The Automotive Battery service company.
2. Keep the battery securely fastened in place.
3. Keep battery and interior of battery compartment wiped clean and dry. Do not permit an open flame near the battery.
4. Distilled or fresh, clean rain-water must be added to all cells regularly and at sufficiently frequent intervals to keep the solution at the proper height.
5. Add water until solution is one half inch above top of plates, and never let the solution get below top of plates.
6. The best way to ascertain the condition of the battery is to test the specific gravity (density) of the solution in each cell with a hydrometer. This should be done at frequent periodic intervals. Always test before, not after, adding water. After testing, be sure the electrolyte is returned to the cell from which it was taken.
7. When all cells are in good order, the gravity will test about the same in each cell.
8. A fully charged battery should show a specific gravity reading of 1.280 in each cell. Gravity above 1.285 indicates battery more than half charged, while a reading below 1.250 shows battery to be completely discharged.
9. Adding acid or electrolyte will not bring up the specific gravity, and should never be used except by an experienced battery man.
10. Gravity in one cell markedly lower than in the others, especially if successive readings show the difference to be increasing, indicates that the cell is not in good order.
11. A battery charge is complete when, with charging current flowing at the finish rate, all cells are bubbling freely and evenly and the gravity of all cells has shown no further rise during one hour. The specific gravity reading should then be between 1.280 and 1.300.
12. If for any reason an extra charge is needed, the battery should be charged by using direct current from an outside source. Limit the current to the proper rate in amperes

**O. E. HOLDMAN COMPANY WILL BE
AT COMING SHOW WITH COMPLETE
LINE OF "MOST BEAUTIFUL" CARS**

**Paige Dealers Feel Pride in
Beauty and Distinctiveness
of Make; 'Glenbrook' Leader**

The O. E. Holdman Auto company will enter the Pendleton Auto Show this year with a complete new line of both open and enclosed Paige cars. Foremost among the outstanding features of these cars are the power plant which have been highly developed and perfected.

"Our line has won in past seasons considerable distinction for originality of design and beauty of appearance," says Mr. Holdman. "In our new models for 1921 we endeavored to maintain that reputation and believe we have succeeded."

"Our engineers, however, have been working for some time on the further development and perfection of the purely mechanical features of the car, especially the engine. The aid has been to create power plants that will deliver the utmost in performance, for, after all, it is performance that counts most in these days when the motor car is regarded first of all as a practical utility."

"Power, speed, hill-climbing ability, flexibility, capacity to meet every demand of road, grade or traffic—these are the factors that mean most today. The cars that will deliver maximum are the cars that will have the call and the maximum of performance was what we aimed for."

by connecting a suitable resistance (incandescence lamps) in series with the battery.

12. The normal charging rates for various type of batteries are usually shown on the battery name-plate.

13. A battery which is to stand idle should first be fully charged.

14. A fully charged battery will not freeze.

**A. C. STEVENS RENEWS
CONTRACT FOR HAYNES**

A. C. Stevens, Sixteenth and Washington streets, Portland, Haynes distributor for the state of Oregon, has renewed his contract with The Haynes Automobile Company, Kokomo, Indiana, for the year 1921, according to an announcement by Alton G. Selberling, vice president and general manager of the Haynes company. Mr. Stevens, who is one of the prominent automobile men of the northwest, predicts a highly successful year for his organization, especially because of the new

"Our new line is built on two chassis, the '6-66' on which our larger six cylinder models are offered and the '6-42' which includes all the small 'six' models. These cars have already established some record performances. It was in one of our stock '6-66' cars that Ralph Mulford made the 1920 record up the Pike's Peak motor highway. He had previously made a spectacular climb of Pike's Peak up the cog railroad in this same car—the first time this feat had ever been accomplished in a automobile."

Among the models in the Paige 1921 line are the seven passenger "6-64" Lakewood touring car; also a new sport model, Larchmont II, and a five-passenger coupe, both built on the "6-66" chassis. Among the "6-42" models the popular leader is the new series Glenbrook, a five-passenger touring car.

The big six has a 151 inch wheel-base. Its outward appearance several changes will be noted. There is a new rear-end construction. The lines of the hood have also been altered somewhat. The radiator has been raised a trifle, though the familiar V-shape has been retained. From the corner of the radiator shell a straight line has been carried back along the hood, this line forming the top of the body sides on the open models. Another new item is a three-piece windshield with a solid aluminum frame to carry both the front glass and the triangular side wings.

The new member of the small six line is the Admore, a four-passenger sport model which has a rear seat divided by an arm rest.

Haynes Fifty, the smaller and lighter Haynes five-passenger touring car.

The local branch of the A. C. Stevens Motor Co. is a direct branch.

connecting a suitable resistance (incandescence lamps) in series with the battery.

12. The normal charging rates for various type of batteries are usually shown on the battery name-plate.

13. A battery which is to stand idle should first be fully charged.

14. A fully charged battery will not freeze.

**PISTON RINGS MUST
BE EXACTLY RIGHT**

Fuel and oil economy in the operation of motor cars has become a vital question with the motoring public. Many motorists are becoming familiar with the importance of the improved piston ring, and its relation to the economical operation of their motor cars. Many a dollar has gone from the unfortunate motorist who drives a car equipped with poor piston rings, and this is in all probability the reason for the increase in the interest of the motoring public in piston rings of the proper type and design.

The Jews of Toronto, Canada, have suffered very slightly from the small-pox, which has visited that city.

**NEW CAR REQUIRES
ATTENTION IF YOU
WANT BEST RESULTS**

**Study of Instruction Book is
Recommended; No Car Will
Do Best Work Until Used.**

The dealer has just left your new car at the door, and you invite the family to go for a short ride. Doesn't the engine sound powerful and quiet? Your tests are all met satisfactorily, and you realize that it means sun, flowers and red blood and that it will pay its cost in health for you and yours. But—are you interested in your car's health? Do you intend to keep it fit from the start. Of course you do.

After the first trip take a wrench and go over every nut and bolt on the car to make certain that all are tight. The engine parts should get special attention, for a defect here will result in misfiring and poor carburation. Make your inspection frequently for the first 100 miles, until the car will have worn in somewhat. Then you can relax your vigilance a bit.

Make a thorough study of the instruction book. Look at the lubrication chart and familiarize yourself with the location of every grease cup and oil hole. Then see that all are kept filled properly. This will insure against worn parts or scored bearings, and, incidentally, allow you to learn the lubrication system thoroughly.

When an automobile is built the engine has been run but little, and the parts are fitted tight to make them snug after the stiffness has worn off. The car will not show much speed until these parts wear in. So don't exceed twenty-five miles an hour until your speedometer registers 1000 miles. By so doing each part will "find itself" and you will be perfectly safe in exceeding thirty miles an hour. If you force a car before it has obtained the 1000 miles it will result in a noisy engine and premature repairs.

Every now and then the new car should be jacked up, the wheels shaken and the looseness removed. As the bearings become accustomed to their work the need for adjustment will go away.

Be careful of your gasoline adjustment on the dash. Do not leave it "rich" and longer than is necessary, for this results in an extra amount of gasoline getting into the engine, which will, of course, thin the oil.



MEN and women, the world over, are irresistibly attracted to the Cadillac, first, last, and most of all, because of its everlasting and unvarying dependability.

That is the determining Cadillac thought—the thought, which is likewise a certainty and a conviction—that there is nothing they can ever ask of the Cadillac which it will not render them.

Oregon Motor Garage
CADILLAC DISTRIBUTORS
Phone 468 119, 121 W. Court
See the Cadillac at the Show.

CADILLAC



FEDERAL

Double Cable Base

TIRES



INCREASED MILEAGE IS BUILT INTO FEDERAL TIRES

Their perfect construction gives them wonderful flexibility and strength. Buy Federals. They cost no more and go farther.

SEE THEM AT THE AUTO SHOW, MARCH 10, 11 AND 12, 1921.



Allen-Knight Co.

DISTRIBUTORS FOR UMATILLA COUNTY.