

UTOMOTIVE SECTION



MOST DELICATE PART OF MOTOR

Proves Great Source of Trouble to Many Car Owners.

GAS STRAINER

Motorists Should Be Sure to Secure Best Quality

automobile engine. Perhaps some time when you have been eating crackers or in the intake valve of the vaporizer.
One little good-for-nothing, insignificant speck of dirt, so small as to be almost invisible, will put the best carburetor almost impossible to get good pressure and the only interest and the pistons be perfectly tight, but in such an event it would be found almost impossible to get good pressure on these frosty days when the gasoline

and air do not mix properly. There are several good makes of gasoline strainers which reduce car-buretor trouble to a minimum, provided one will drain off the strainer occasionally to let the dirt run off. Straining the gasoline supply through wire, gauze or chamois does not always entirely obviate the difficulty, for gasofine tanks are prone to acquire a slight

A few drops of water in the gasoline which reaches the carburetor will make trouble likewise, for it will not vaporize, and, what is more, it will not let anything else vaporize. Probably no one is trying to dilute the gasoline with water and sell you such a mixture, but there are some mighty careless men in the gasoline trade. It reminds one of the farmer caught selling watered milk, who pleaded that there was a pump in the milking yard and some of his men must be coreless in passing by The chamois skin will remove this impediment, for water will not pass

The vacuum tank is a favorite resort for water, and if the plug or drain cock in the bottom of this tank is opened occasionally the water may usually be eliminated before it gets to the car-

Another trouble which afflicts the automobile motor has to do with the weather. The carburetor requires frequent slight adjustment, due to changes of the weather. On a dry, warm day the gasoline vaporizes easily, and the maximum charge is readily exploded in the cylinder, giving a maximum of power. On a wet, cold, heavy day, gasoline requirements are different, and a one's fingers. slight adjustment of the control on the dash is necessary, but the variation is never enough to make changes in adjustments at the carburetor necessary.

A very slight leak in the intake manithe cylinders will vary according as the vibration opens up the gasket and stops the suction by which the cylinders are supplied. A leaky piston ring will do this for one of the cylinders. If worn, or frozen fast by carbon, it will fail to keep the piston tight, the mix-ture passes by the leak, if sucked in, and there is no compression and no explosion or irregular firing. This will make one think sometimes that the carburetor is at fault, whereas the engine really needs an overhauling. In fact, if one is having engine trou-

Carelessness, Not Excessive Speed, Cause of Majority of Car Accidents

ADJUSTABLE WRENCH. Here is a pipe wrench that can be adjusted not only to the size of any

nut or rod, but to any position.

feature makes it especially suitable for the motorist's tool box. The jaws run

parallel to the handle. Full leverage

can be obtained in any position, say its

Riteway Garage Door Sets

N. Slater Co., Limited

TO 60 OUT FOR RIDE WITH M

There is considerable popular misconception as to the dangers inherent in the speed at which automobiles are capable of going. As a matter of fact, most automobile accidents occur in a sense independent of the speed, and are due more to carelessness or reckless driving than to the actual rate of going. Some of the principal accidents occur at the lowest speed, for which reason legislative interdiction of reasonable speed by no means precludes the possibilities of mishap.

The point is that judgment is the one factor most conducive to safe operation, and that laws should be such, it is claimed, as to determine the possession of skill and judgment in

it is claimed, as to determine the possession of skill and judgment in every automobile operator rather than possession of skill and judgment in every automobile operator rather than such as to prevent a skilled driver who uses good judgment from proceeding at a safe and reasonable rate.

Anyona at all familiar with attletter Anyone at all familiar with athletics portunity to avail himself of the speed

knows that there are hundreds of athletes capable of running at the rate times when he may do so with safety The carburetor is the lungs of the of twenty miles an hour for as great a to other highway users. should try out the piston rings to see you have accidentally breathed a few if they are doing their duty. This is crumbs into your lungs. The result is very simple for all practical test needs. an immediate suspension of operation

an immediate suspension of operation of your faculties while the lungs expel the intruding substance. Something the intruding substance you get a you get a sany pressure left.

On the four-cycle engine the valves for they may On the four-cycle engine the valves must be considered also, for they may

on the cylinder, since it leaks through the valves while the piston is making on the cylinder, since it leaks through the valves while the piston is making the troubles to which automobile enthe carburetor, until you have determined to the carburetor. gines are subject has to do with the carburetor. This is particularly true

The carburetor should be drained occasionally to prevent the accumulations of sediment, which will later clog the needle valve, and at least once a season should be taken apart and cleaned. Time spent in this way well repays the owner.

An easy test to see whether the careral blocks with the throttle practically closed, then, when the road is clear, press sharply upon the accelerator pedal, which opens the throi le wide, and should make the engine speed up and the car jump forward. If it is and the car jump forward. If it is sluggish it will denote a too rich mixture, and if it splutters and perhaps backfires it is too lean. But if, with smooth yet rapid action, it makes the car speed up, that is "pep." The amount of "pep" which a car is said to possess is gauged by the quickness with which it responds to the acceleration either by the pedal or by throttle lever, changing the car from slow or moderate speed to full speed. That, too, without jerky action or tearing the motor apart While this test, showing the presence while this test, showing the presence of "pep," will denote that the mixture passing through the carburetor is correct, absence of "pep" does not always mean that it is wrong. Therefore, it is not wise to jump to the conclusion

that the adjustment is wrong. In fact, the adjustment should not be changed unless it is fully certain that it wrong. If the car has been running with the carburetor working properly. unless it is fully certain that it is it may be safely assumed that the carburetor adjustment is correct. Adjustments are not changed except by some-

The owner should learn the make-up and peculiarities of his carburetor, understand its common and uncommor ills, and thus be able to remedy a trouble which would mar a trip or the fold gaskets likewise makes all sorts of trouble, since the supply of mixture to make of carburetor, because if the manufacturer's instruction book does not contain full information and sketches of the make used, a special carburetor book may be obtained from the maker. But there is no excuse for failure to master the lungs of the engine and to learn how to keep them breathing properly.

> Equipment for automobiles in 1900, considered "extra" in those days, included mud guards, best quality of oil lamps, seat cushions and one

> > If you have a farm lighting plant with an Exide, you know how dependable is its

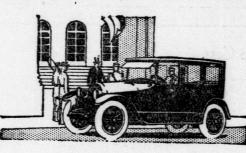
Ford Owners—

WE will continue to give service on all FORD cars as heretofore; also we will maintain a full stock of "GENUINE" FORD REPAIR PARTS, and we solicit a continuance of your patronage, assuring you our constant endeavor will continue to be

"SUPER-FORD SERVICE."

Reliance Garage, Ltd.

America's preference for the Cadillac is shared by the great automobile critics of Europe, who declarethe Cadillac to be the world's finest motor car.



CADILLAC

Beemer & Company Limited 127 Queen's Ave.



Standard of the World



Continuous Dividends ensure more Telephones

To-day, 7,500 Bell Telephone stockholders receive our cheques for their regular quarterly dividend.

For over 36 years without interruption these cheques for dividends on our stock at the rate of 8 per cent. per annum have gone regularly to our shareholders.

We must pay our shareholders for the use of the capital they entrust to us, just as we pay employees for their labor.

Why stress this point about the regularity of the dividend?

New capital for extension of our system can be attracted only by an assured and adequate return. Our continuous outlay of this new capital is the only means by which applicants for new telephones can get the service they need.

For the first eight months of 1922 we have provided the facilities—buildings, switchboards, poles, wire, cable, instruments—that have enabled us to install more than 52,000 telephones. We are making every effort to overtake and anticipate demand.

C. H. BEARD, Local Manager,

Every Bell Telephone is a Long Distance Station

which is hard to diagnose, one spare tire. Three Things You Want

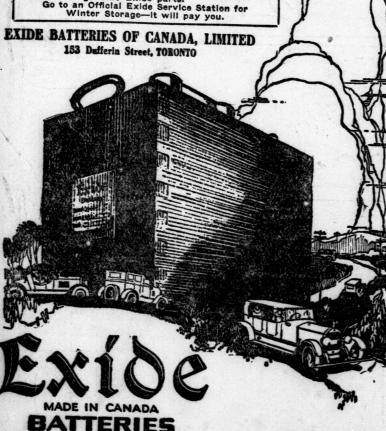
The three things that count in a battery, the Exide gives in maximum measure. These

1-Plenty of Power-and then some 2-Long Life

3-Freedom from Repairs A real battery means so much to you that ou should ask, in buying a new car, if it is Exide equipped. If you have any trouble in finding an Exide

when you need to replace your present battery, just write us or our nearest district distributor. If you won't feel warranted in buying a new Exide
Battery at this time, ask our nearest Service Station—before you consider getting a substitute make
of battery—whether your present battery cannot be
rebuilt with genuine Exide parts.

Go to an Official Exide Service Station for
Winter Storage—it will pay you.



THE LONG-LIFE BATTERY FOR YOUR CAR

DODGE BROTHERS BUSINESS COUPE

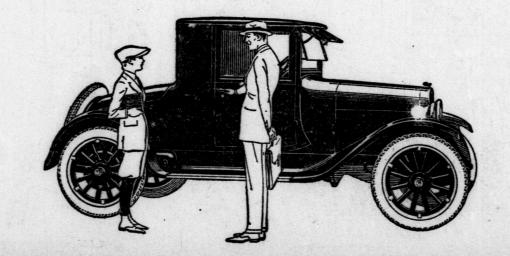
With this coupe Dodge Brothers have proved once for all that a closed car can be as sturdy and practically as inexpensive as an open roadster.

This is largely due to the all-steel bodythe first ever marketed-which admits of lower cost of manufacture through standardized machine production. Unlike wood, the steel surface will take a finish of enamel, baked on at high temperature. This process results in a permanent lustre, and eliminates the trouble and expense of repainting.

The wide straight seat is upholstered in genuine Spanish blue leather, durable and readily cleaned.

Prices, delivered and taxes paid. \$1,390 Business Coupe - \$1,545 \$2,320 Business Sedan - \$1,895

W. J. CHISHOLM 478 RICHMOND ST., OPPOSITE GRAND THEATRE.



Feed your product more vitamines

RIGHT color on big spaces may create interest in a picture, but it lacks four-fifths of the advertising vitamines that send people into a specific retail store to buy goods.

The retail distributor must have advertising that builds up confidence in the product; that can educate new customers; that can make them desire new things to eat and wear and enjoy; that finally sends them to the counter with cash in hand.

Thirty years ago, Mr. P. C. Larkin sought anxiously for a link between his brand, the retailer and the buying public. He found one that has never broken.

"I thought of telling my story in a single newspaper," he writes, "which I did and soon saw results. The single medium soon became two, and then a dozen, and now many hundreds on the American continent alone, where practically every daily newspaper of any importance carries Salada Tea Company advertisements."

There is only one common power that can influence buyers for our local merchants and the national advertiser. This is the Daily Newspaper in our trade area. The retailer who impresses this fact upon the manufacturer turns over his stock quickly and profitably.

Issued by the Canadian Daily Newspapers Association, Toronto.