

MOTORS AND MOTORING: A Page Full of Interest to the Owner or Prospective Owner of an Automobile.

HOW CARS CATCH FIRE

"How did your car take fire?" "I don't know. I heard it pop, back at the carburetor, and suddenly discovered that it was on fire." "What made it backfire in the carburetor?" "I don't know. We can't find out because the car is a total loss."

This is no imaginary conversation because cars have burned in the past and will again in the future due to backfiring in the carburetor.

The most frequent cause is a lean mixture. This means more air in the mixture than usual. The carburetor gets out of adjustment in some way and the mischief is done. A lean mixture is slow-burning. It burns all during the power stroke, all during the exhaust stroke and is still burning when the inlet valve opens, admitting the fresh mixture. This takes fire and flames run back to the carburetor. If there is any gasoline dripping from the carburetor a heavy vapor is formed, extending under the engine, where it is held by the mud pan. The flame spreads under the engine and soon reaches the tank, melting the connections and releasing a flood of gasoline.

Lean mixture may be due to derangement of the carburetor or a leaky inlet manifold. Spray nozzle too far closed, auxiliary air valve spring too weak or valve stuck open or clogged fuel line, are a few carburetor causes. A leaky inlet manifold may be detected by running the engine and injecting oil around the joints. Oil will be sucked in at the leak where the bolts must be tightened or a new gasket installed in place of the leaky one.

We now come to troubles of the inlet valve, which indeed are very rare. The valve lifter may be out of adjustment, leaving no clearance, or actually pushing the valve off its seat. If there is little or no clearance the valve will hold compression when the engine is cold, but will leak when the engine warms up, due to lengthening of valve stem, and of course, popping in the carburetor occurs immediately. Set the clearance at about two thicknesses of newspaper. Occasionally this valve may become stuck, so that it cannot close. This may be seen from the outside, as there will be an unusually large space between the valve stem and lifter.

Fortunately cars do not burn as frequently now as they used to, probably because the flame is led away from the carburetor by the hot air pipe leading from the hot air stove on the exhaust manifold. But

 We should be very glad to have motorists make use of this page to ask questions or make suggestions to others who are driving cars. No doubt such suggestions would be of great value as naturally all drivers have not the same experiences. Short practical articles written by local motorists will be also gladly welcomed and given a place. We hope to make this page of THE ACADIAN a most interesting feature during the coming summer, and solicit your help.

WATCH FOR SHORT CIRCUITING

On a well known small car we find the trouble caused by short circuits on the timer wires. These chafe against each other and sometimes against the sides of the engine, wearing away the insulation and so causing trouble. Close switch used on battery, or run engine on magneto, and advance and retard the spark, watching the commutator and wires. If sparks are seen a short circuit is indicated, which may easily be stopped with tire tape.

Electrical troubles now engage our attention. With a single coil and distributor system such as used on the majority of cars, there would be some distributor trouble or a short circuit of the distributor wires. See that all wires are properly insulated and wipe all dust from distributor head. If you know how to open the distributor you should wipe out the inside occasionally, using a cloth dipped in gasoline. This will remove all accumulations of dust, which will cause short circuit if allowed to remain.

WHERE WIRE IS INJURIOUS

Never attempt to connect a broken crosspiece of an anti-skid chain with wire. Further wear will cause the wire quickly to force itself into the surface of the rubber tire.

don't think your car is safe on that account. There are leaks in these pipes and there is an adjustment with large holes to let in air when necessary. So watch out for popping in the carburetor and determine its cause immediately. Here, as elsewhere, "eternal vigilance is the price of safety."

A MOTTO FOR THE AUTO.

Nowhere, perhaps, does the old saying, "a stitch in time saves nine," find more appropriate application that it does when referring to the care of an automobile.

And the care includes much more than items like engine upkeep tire doctoring, battery filling, revarnishing, and the like.

Take the upholstery for instance. Even though it be made of the best of materials, it will in time begin to show the effects of constant wear. The seams may unravel or the cloth become threadbare. But before the packing underneath is exposed that upholstery should have a little expert attention.

If the worn spot is not too large, careful workmanship can put on a patch that will match the rest of the upholstery in color, design and quality so completely that the repair can seldom be detected. On the other hand, if the upholstery is in bad shape it should, of course have an entirely new covering.

CAR NOTES

Never shift into reverse while the car is moving forward.

Do not draw brakes up too tightly. Renew water in the cooling system every week.

Place fuller's earth on oily clutch or brake surfaces.

About 34,000,000 tires will be needed for use on all the motor cars of the country in 1922.

When the car steers hard the tires may need inflating.

Cover the battery terminals with vaseline to prevent corrosion.

The strongest man in business is the consistent advertiser. Samson took two columns, and he started something.

Minard's Liniment for Burns, etc.

Auto Show

All prospective buyers of a new Auto, Tractor, Gas Engine, Spraying Outfit, etc., will bear in mind the annual Auto and Farm Machinery Show to be held in Berwick, on May 24th., where all the latest styles and makes of the above mentioned articles will be on exhibit. Purchasers get a better chance to see them and dealers a better chance to exhibit them.

POWER OF STORAGE BATTERY

"The modern automobile storage battery, from the standpoint of the unit of power, is the most compactly built device in existence," says an expert.

"When you consider," he says, "that a storage battery weighing about sixty pounds can generate enough power to raise itself six and a half miles in the air it will give some idea of the tremendous force hidden within the small black box on your automobile."

"A normal battery, if properly looked after, may last anywhere from two to five years. Batteries could be built, however, to last even longer than that, but they would be impractical for the automobile because of their greater size and weight. The present-day battery, equipped with the more durable hand-paste plates, really represents the last word in storage battery construction."

NOTICE

PROVINCIAL HIGHWAYS BOARD

The attention of the Public is called to the following extract from "The Load of Vehicles Act" for the year 1919, Chapter 1, Par. 7 and 8.

Par. 7. "No person shall operate a Motor Vehicle that is subject to the provisions of the Motor Vehicle Act of 1918, on any Highways in any Municipality, after the twentieth day of March, and before the first day of May following, without the permission of the Engineer of Highways, or any such other officer as may be appointed by the Provincial Highways Board, for that purpose, first had and obtained.

Par. 8. Any person who contravenes any of the provisions of this Act, or any permit granted under the authority thereof shall incur a penalty of not more than One Hundred Dollars recoverable under the "Nova Scotia Summary Convictions Act" which shall, when collected, form part of the Highways Tax of the Municipality in which such cases arise."

Permits for the necessary operation of Motor Vehicles in the Counties of Annapolis, Kings and Digby during the closed period may be obtained from the office of the Division Engineer of the Provincial Highways Board, Kentville, N. S.

MACINTOSH MILLER,
 Division Engineer,
 Provincial Highways Board,
 Kentville, N. S., March 13, 1922.

Maxwell Automobiles ON TERMS

I have a few new 1921-22 Touring Model cars I am offering to responsible parties on the following Terms.—

Price of Car Delivered \$1300.00

\$100.00 DOWN

\$100.00 per month until paid; with Interest at 7%

Also offer you several cars used very little last season at bargains, same terms as above.

C. A. PORTER

Wolfville, N. S.

D. B.

A Carload of Dodge Brothers Cars have arrived (2 Carloads on order)

Come in and look them over before buying
 It will be to your advantage

Demonstration Gladly Given

J. S. LAMONT, KINGS COUNTY DEALER

THOMPSON BROS., Canning, Sub Dealers

Every dealer is obliged to carry a stock of parts.

BRANCH OFFICE
 29 ARGYLE ST., HALIFAX



C. A. PORTER

PROVINCIAL DISTRIBUTOR
MAXWELL AND CHALMERS AUTOMOBILES
 MAXWELL TRUCKS

ADDRESS ALL COMMUNICATIONS
 TO THE HEAD OFFICE

P. O. BOX #2

WOLFVILLE, N. S., April 12, 1922

HEAD OFFICE
 WOLFVILLE, NOVA SCOTIA
 PHONE 183 & 42-11



To the Prospective Purchaser:

Dear Sir:—

It is part of our business to know motor car values. We believe we know such values as well and as intimately as any other men in this vicinity.

In the light of this knowledge, we are going to make a statement in this letter which will either damage our reputation as sincere, straight-forward business men, or increase it greatly.

That statement is simply this:

The Maxwell car at \$1350.00 delivered, is the greatest value in its class.

If we couldn't back that statement up by proving it to you so clearly and forcibly as to have no room for doubt, it would act as a business boom-erang.

We can prove Maxwell's superior value - overwhelmingly, to you or any other member of your family, or any engineer or mechanic in whom you have confidence, and who is thoroughly familiar with automobile mechanics. And we stand ready to prove it, any time you may desire to come in and see us or our dealers.

Yours very truly,

C. A. PORTER

THIS WILL BE ANOTHER

Studebaker Year

It's the car everybody wants because it is the best.

The unusual popularity of STUDEBAKER CARS is attested by the fact that the corporation enjoyed the biggest business in its history in 1921.

Notwithstanding the fact that the total number of all automobiles sold (except Ford) was 40 per cent. less than in 1920, the total aggregate of sales for the Studebaker cars was 20 per cent. greater than in 1920—and in Canada 64 per cent. greater than in 1920.

QUALITY COUNTS!

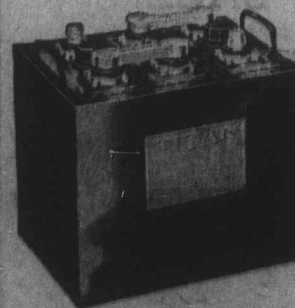
Get into the procession and drive a Studebaker in 1922.

Full information on application. Let us tell you about the Studebaker.

W. A. REID

WOLFVILLE, N. S.

TITAN BATTERIES



J. F. Calkin

Distributor for Nova Scotia

Batteries Repaired and Charged

ACETYLENE WELDING

PHONE 184.

WOLFVILLE

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