

# MOTORS AND MOTORING:

A Page Full of Interest to the Owner or Prospective Owner of an Automobile.

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Justice of the Supreme Court of Canada, who was honored at the Special Convocation of the University of Toronto with the degree of Doctor of Laws.

## LIMITS TO TIRE PRESSURE

Tires are material things. They perform only according to mechanical and physical laws which determine their strength. They cannot call forth super efforts to meet emergencies. A tire is built with a certain amount of strength. If this strength is exceeded it will give way, no matter how much the motorist wishes that it might not.

A string that will hold a pound suspended in the air will not suspend two pounds or even a pound and one ounce. Tire men say that the laws that govern the loads, carrying capacity and ultimate service of tires are exactly the same as those that govern the strength of other material things.

The motorist may say: "I have overloaded and underinflated my tires and they have withstood it." They would be poor tires if they did not, as a certain margin of safety must be allowed.

The maximum loads specified by the engineers to be carried by different size tires are not the bursting loads under which the tires will deliver maximum and most satisfactory service.

The same is true of inflation pressures. Inflation specified by manufacturers are those below which the air pressure in a tire should not drop to insure maximum service.

It is poor policy to overload tires. It is an expensive practice.

## BUTTONHOOK GOOD COTTER PIN PULLER

A very convenient cotter pin puller may be made by bending the end of a piece of three-eighth-inch rod into the shape of a button hook. On the other end a T-shaped handle is riveted. An additional convenience is to drill a piece of one-inch round stock and place it on the body of the puller for use as a sort of sliding hammer. A series of taps with this hammer on the end of the puller will loosen the recalcitrant cotter pin.

When buying a used car, be sure that all four wheels are the same size. In some early makes the front wheels were smaller than the rear wheels. This was objectionable for a number of reasons, one of which was the necessity of carrying two different sized spare tires.

## Auto Fires

You are not expecting your automobile to burn, but the fact is, you can't really know. It is best to be on the safe side and protect your car with

## Automobile Insurance

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## TIRES TAKE UP MUCH OF CAR'S ENGINE ENERGY

When an automobile runs along a street under its ordinary load, its tires alone, even when in good condition, use energy equal to about four horsepower, or a large proportion of the power of the car. These startling figures have been announced by experts of the United States bureau of standards who have been testing tires in a special dynamometer.

The average four inch tire will absorb approximately nine tenths of a horsepower when properly inflated and running under ordinary load at 25 miles per hour. It is advantageous to use cord tires, the experts have found, as a cord tire of the same size uses only six tenths of a horsepower. It has been demonstrated that 80 to 85 per cent. of the power loss is in the carcass or main part of the tire, that the tread contributes 10 to 15 per cent., and the tube is responsible for less than 5 per cent.

If tires are not properly inflated, the power loss is much greater.—Science Service.

## AUTOMOBILISTS AND FOREST FIRES

In many parts of this continent it is found that automobile registrations and forest fires are increasing about proportionately. A great many people are touring about the country, seeking out places away from the railways and main highways and, unfortunately through carelessness with fire, some of them misuse and destroy the forests. There is no desire on the part of forest authorities to bar citizens from the forests, but there is no reason why forest fires should follow in the wake of the automobile. All that is needed is that every tourist who camps for the night or stops at noon to boil his kettle in the woods should personally see to it that his fire is dead out before he leaves it. Those who go into the woods for either business or pleasure see the value of the forests and should catch the enthusiasm for the conservation and proper utilization of this great Canadian resource.

This world that we're a-living in  
Is mighty hard to beat;  
You get a thorn with every rose—  
But ain't the roses sweet?

Ask for Minard's and take no other.

## AIR LEAK CAUSES ENGINE TO MISFIRE

Poor engine operation at low speeds is a common complaint, with the usual cause in the carburetion system. Often an air leak throws out carburetor adjustment so that an insufficient amount of fuel is fed. Wide spark plug gaps with a magneto having a weak magnet is a combination which may induce this same trouble. With a battery system in use the ignition may be neglected until the carburetion system has been attended to, and if this fails to locate the trouble the ignition should then be overhauled.

## OILING - CLEANING - ADJUSTING

If an automobile is properly lubricated and minor adjustments made when the need demands them, it will be unnecessary to arrange for complete overhauling of the car, such as the taking apart, cleaning adjusting and replacing worn parts of every mechanical unit. Rattles or knocks develop, but will be discovered immediately as they occur if a weekly inspection is given by the owner, and should be attended to and remedied at once. When the car is very old and has reached its limit of service, general overhauling may be necessary, although even then there may be parts in fair condition.

## CLEAR OIL PASSAGES

Oiling a car and filling grease cups when the oil grooves and grease ducts are closed will be of no use until every channel is thoroughly cleaned. Grease cups are installed at points where lubrication is necessary to prevent undue wear, and it is obvious that the oil and grease should reach the designated destinations.

## USELESS LEAKS

Leaks around the car mean power wasted and lost. The leaks may be of water oil or fuel. There are dozens of joints in the engine, and each one may spring a leak under certain conditions. Good gasketing is the best insurance against this trouble. Frequently inspect the joints and, if not sure of the existence of a leak, squirt a little oil over the suspected spot, bubbles will tell the tale of the leak.

Even mules can't kick while they are pulling. Neither can they pull while they are kicking.

## REGULAR INSPECTION NEEDED

Practically all motorists recognize the benefit of overhauling for the car. The elimination of carbon, the tightening up of the bearings, bolts and nuts, and the freshening effects of a coat of paint are not sufficient.

The battery requires more or less attention at all times of the year.

Corrosion may have taken place around the terminals. This should be carefully scraped off and vaseline spread over them to prevent further trouble.

The cradle in which the battery rests is frequently so badly corroded by acid that, figuratively speaking, the battery is only held by a thread. In fact batteries have been known to drop out on the road because the motorist had failed to examine his cradle.

The wisest course is to drive the car to the nearest service station either before or after you have completed the rest of the overhauling.

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¶ "Some two years ago I purchased two Dunlop Traction Cord Tires, 32x4. Since placing them on my Columbia Car I have covered 18,500 miles. In view of the almost uninterrupted service they have given, and still are giving, I feel it is my duty to inform you of the great satisfaction I have received from their use. Also, I must congratulate your Company on the high standard of quality that is put into the manufacture of tires, to enable them to give such service."

¶ In Dunlop Cord Tires you have "Traction" and "Ribbed" to choose from.

¶ In Dunlop Fabric Tires you have "Traction," "Ribbed," "Special," "Clipper," "Plain."

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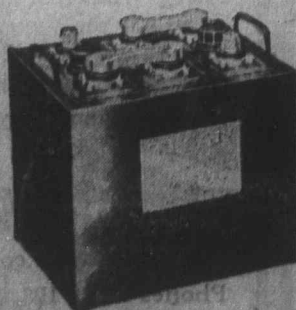
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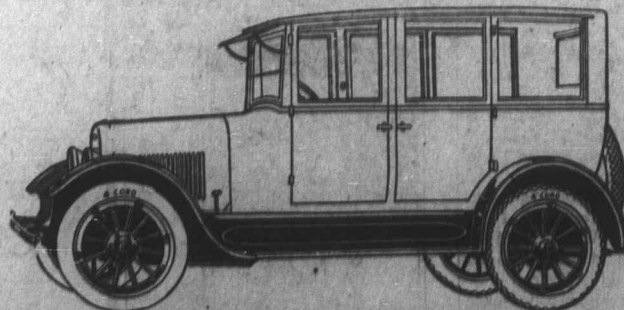
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