

**AUTOMOBILES NOW TWICE AS SAFE**

Automobile use is growing constantly safer. Official figures show a steady decline in the ratio of fatalities to the number of cars in operation. Automobile deaths per car were .0025 in 1914, and have been reduced to .0013 in 1919. Figures for the year 1920 in Detroit and New York City show that these cities registered 22 less fatalities than in 1919. The reduction of 50 per cent. in five years in the ratio of fatalities to the number of cars shows that the public is quickly adapting itself to the problems of congestion, and continued progress in motor safety is confidently looked for. Automobile manufacturers feel, however, that the actual numerical increase in car fatalities nationally presents a situation which calls for further strenuous effort in the minimizing of hazard.

**KEROSENE AND CARBON**

Kerosene will not dissolve carbon, tradition to the contrary, but a little kerosene put into the cylinders may loosen the carbon. It breaks up the caked deposits which may then partially be blown out of the exhaust. The method of using the kerosene is as follows: About a tablespoonful of the kerosene is poured into the combustion chamber while the engine is hot. The engine is then allowed to stand for about twelve hours when an eighth glass of kerosene is fed into the valve of the carburetor with the engine running and throttle well open. Feed the kerosene slowly and the engine sucks it in.

**VASELINE FOR TERMINALS**

The car owner should not forget that ordinary vaseline is perhaps the best medium available for coating battery terminals and connectors. The vaseline has the great advantage of preventing corrosion from acid or water that may have been spilled.

**TRUCK TIRES**

For the man who drives a big, heavy car, the possibilities of truck pneumatics are worth consideration. These are now available in larger passenger car sizes, and they are much heavier than corresponding passenger car casings, insuring longer mileage at comparatively slight advance in cost.

**TRANSMISSION NOISE**

A humming noise in the transmission case is very likely due to an excess of heavy grease. The case should never be more than two-thirds full, and oil is the proper lubricant, not grease. It is axiomatic that a noise in the gear box means faulty lubrication somewhere.

**REPAIRING BALL BEARINGS**

The fact that ball bearings have become worn does not necessarily mean that they are a complete loss. Instead of installing a complete new set of balls, have the races trued up and put in a new set of oversize balls of the size needed.

**TO PREVENT SCRATCHING**

If strips of brake lining are tied around the jaws of bars used to bend plated or enameled levers, pedals, headlight rods, etc., scratching will be prevented.

**CAR KNOWLEDGE SAVES MUCH MONEY**

**Taking care of the Necessary Minor Adjustments Keeps Car on Road.**

"The first duty of the automobile owner is to know his car," says an expert.

"He should learn the basic mechanical principles of its construction and operation. He should familiarize himself with those parts which commonly require attention.

"Automobile design has been greatly simplified in the last few years. Almost anyone can learn all that is essential to the proper care and operation of his car. And this is one of the reasons for the popularity of the medium weight car of today.

"It is profitable to acquire this knowledge. With it the automobile owner can save himself much time and inconvenience. He will find many minor adjustments that he can take care of himself. He can often save unnecessary examination of his car by experts. He can anticipate and prevent and thereby eliminate trouble almost entirely.

"For most motor car troubles are the direct result of ignorance and carelessness. Knowledge is the proper preventive measure. A minimum amount of intelligent attention will keep a car running better and longer. And an intelligent driver will operate his car so as to avoid unnecessary wear and tear.

"The automobile, in its way, is as responsive to treatment as the human body. And if any ailment develops, the most prompt and sensible attention is the quickest and best remedy."

**CRACKED CYLINDER**

For the car owner who likes to do his own repair work, here is an interesting way to repair a cracked cylinder. Drill a small hole at each end of the crack and top it for a sopper plug. Scrape the surface near the crack till the metal is bright. Cover the crack with soft copper filings and melt them with a blow torch. Use a flux of resin dissolved in alcohol.

**SURFACE GRINDER**

A handy tool for grinding shims, piston rings, bearings caps, etc., may be made by passing a carriage bolt through the centre of the round board which holds the emery cloth in the chuck.

The July number of **ROD AND GUN IN CANADA**, the well known sportsmen's magazine, contains many interesting fishing stories and articles; including "Piscatorial Doubters" a tale of Timagami fishing by M. Parkinson. Pisciculture, by Leo Baker, describes the culture of game fishes at one of the fifteen government hatcheries. The hunter is well looked after in this issue with interesting accounts of hunting trips in Ontario and British Columbia. For the lover of firearms, there is the Guns and Ammunition department, conducted by C. S. Landis. The well known nature writers, Bonny-castle Dale, F. V. Williams and Robert Page Lincoln are represented in this issue. **ROD AND GUN IN CANADA** is published monthly by W. J. Taylor, Limited, at Woodstock, Ontario.

The man who tries to do his neighbors imagines that they are always trying to do him.



By a vote of 25,022 to 12,324 Samuel Gompers on Saturday defeated John L. Lewis, head of the United Miners of the United States, for the presidency of the American Federation of Labor. The above picture of Mr. and Mrs. Gompers was taken at the time of their wedding in April.

**CAREFUL MOTORIST IS EVER WATCHFUL**

**Batteries Must be Kept in Good Shape to Render Efficient Service**

Keep a careful watch on your distributor. In case of a leak in the high tension wires a spark will jump and you can see it. But the spark may be jumping inside and you not know anything about it. So wipe off the dust. By this means trouble is avoided long before it can occur.

Starting and electric lighting systems require efficient batteries. For this reason the battery should receive careful attention. It should be inspected frequently and the plates of the cells kept covered with electrolyte. A little distilled water added at frequent intervals may obviate the necessity of a new battery.

If your car is equipped with the battery ignition system, always remember that the distributor points need cleaning frequently. Carefully follow the makers instructions and you will enjoy a smooth running engine.

Most self-starting systems have a fuse-box installed at an accessible point. The purchaser of a new car should acquaint himself with this as quickly as possible. Very often considerable trouble can be eliminated by the installation of a new fuse. This is a simple matter, but if not known may cause a lot of trouble and unnecessary expense.

Minard's Liniment for Burns, etc.

**CAUSE OF MISFIRING**

A not frequent cause of spasmodic engine missing is either moisture or grease on the ignition distributor. The current passes across the surface of the water or oil, instead of pursuing its proper course. It is a good plan to give the distributor a cleaning at frequent intervals.

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