

# ECONOMY IN OPERATION IS DOMINANT NOTE IN 1922 AUTOS

## ADVISES OWNER TO CARRY FULL LINE OF TOOLS

Careful Automobilist Outlines Accessories Which Add To Comfort of Car Operation.

### TROUBLE LAMP VALUABLE

Points Out Foolishness of Loading Up Battery With Many Electric Devices.

It is always best to have too many rather than too few things in an automobile by way of equipment and accessories.

It is a well-known fact that a woman can fix almost anything with a hairpin, but this fact does not apply to the male species and the female may not always be along when there is something the matter with a car. Nevertheless, a hairpin is a good thing to include among the accessories, or if not this, at any rate, a spoon of soft iron wire.

Most cars come well equipped with necessities. These often include two headlights, two side lights, tail lamps, windshield, top cover, side curtains, speedometer, horn and clock. Then there is usually a tool outfit for tire restoration and mechanical repairs, which includes tire pump, jack, tire repair kit, a variety of wrenches to fit all nuts and bolts, oil can, set of spark plugs and generally an extra one; hammer, screwdriver, cold chisel, magneto-adjusting wrench and some other things varying with the car.

**Trouble Lamp Valuable.** There are any number of additions which may be made in the way of tools, or of devices, which some motorists deem desirable.

Some of these things are a trouble lamp attachable to a socket on the dash, a mirror to enable the driver to see what is going on back of him, cigar lighters, foot warmers and elaborate lights for the limousine. The owner should not, however, load up his battery with a lot of electric devices which use up current very fast. Not so as to tools; one may err in having too few rather than too many.

Some owners of a new car fail to appreciate the value of these accessories and consequently through carelessness this and that important article may get misplaced or lost. It does little good to know what a car when it fails to go if one does not have handy the tools and materials to do the necessary repair work or adjustment.

On the other hand, some owners become obsessed with an uncontrollable desire to have every possible accessory made, which results in their auto looking more like a machine shop than anything else. There is a happy medium that tends to enjoyment in motoring.

**Take Up Little Space.**

A wise selection of tools for the car will provide everything at all likely to be needed on tour and yet capable of being packed in such a compact space that it does not become an annoyance through the room occupied, nor weigh down the car.

The special tools furnished should be preserved with great care, because nothing else fills the bill quite so well. To these might be added some few tools and parts not needed often, but when they are their absence is a source of great annoyance.

A special file is manufactured for the particular purpose of cleaning off the interrupter points. If one of these is not in the car when they become glazed so that no spark is procured, it is necessary to disassemble the spark timer completely, take out the points and then find a piece of flat, hard stone upon which the points may be cleaned. This may do the work all right, but much time would be saved if the interrupter point file was carried in the car.

Should Carry Folding Pail.  
Many Ontario owners have had the

## Motor Tourists Spend \$7 Per Person Daily On An Average

STATISTICS compiled by Canadian highway officials in all sections of the Dominion reveal that a golden harvest follows in the wake of automobile tourists. An analysis of records kept last season shows that the average motorist spends \$7 a day in the community in which he sojourns.

With half the world on wheels it is pointed out the possibilities of increasing the volume of tourist travel and the flood of dollars is limited only by the condition of highways and the attitude of residents toward tourists, from the standpoint of welcome extended and accommodations offered.

experience of being caught out on the road by a storm and having to put on non-skid chains. How often have they found that, though these chains were in good condition when leaving the garage and when they were put on, after running a while over rough roads at a fair speed, some of the links were through and began to thrash against the mud guards. This is not only annoying, but often does real damage to guards.

Most owners have stopped more than once to wire the loose ends to the side chains to stop the banging and it certainly would be more satisfactory to carry a supply of links and a chain tool so that the broken ends could be removed and new links inserted.

A folding pail is very useful, especially when one has to go up very long hills and finds that the water in the radiator has boiled away. The cooling systems for automobile engines today are very efficient and it is only in exceptional cases that the water will boil out of the radiator, and that is just the reason why an occurrence of that sort is disastrous, because one is not expecting it and is not prepared for it.

**Block of Wood Handy.** In sandy country and on dirt roads one often will have occasion to jack up a wheel to change a tire and will find that the jack sinks into the loose sand or dust instead of lifting the car. A block of wood an inch thick and about six inches wide and a foot long will be found a big help under such circumstances.

Working about an automobile means a lot of grease and grime on the hands and possibly oil or grease upon parts of the car, so that it is well to carry a small bag of waste or rags.

It is a good idea to have a three-in-one or similar tire valve tool with which it is possible to remove the valve plunger, cut threads in the valve stem so that the plunger may be properly seated and cut threads on the outside of the stem so that the cap will screw down tight.

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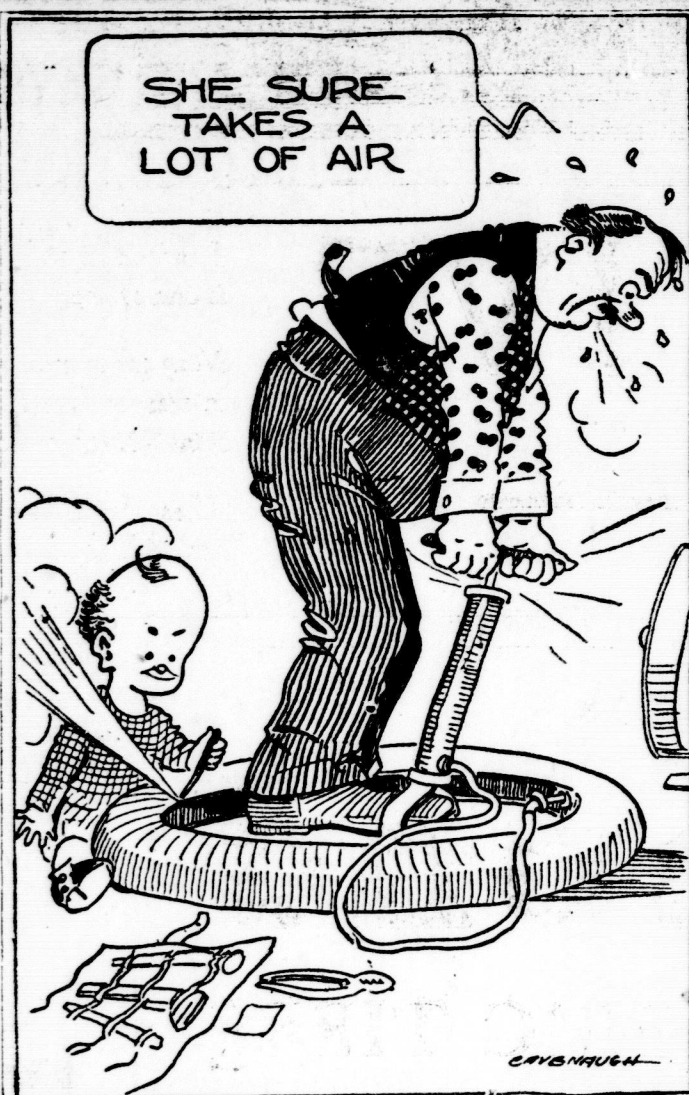
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## WASTED ENERGY.

BY CAVENAUGH.



## Consider Convenience of Public Now Watchword of Motor World

Don't drive faster than the following speeds:

	Miles per hour
Within a city, town or village	20
In the open country	25
At street intersections in cities, etc.	10
At cross-roads in open country	12½
Where you have not a clear view of approaching traffic.	

### HEAD LAMPS.

Must be equipped with an approved type of non-glare lens and proper candle power bulbs, correctly adjusted to eliminate glare. Dimmer and tail lights must be lighted on automobiles left standing on all streets after dusk.

### DON'T

Cut in, in front of another car.  
Slow down suddenly, or turn corners without giving audible warning or holding out your hand.  
Turn a corner to the right, without keeping close to the curb.  
Turn to the left without passing the center of street intersection.  
Pass standing street cars, or pass them on the left side at any time.

## URGES NEED OF CAUTION WHEN DRIVING AUTO

Authority Emphasizes Extreme Importance of Attention to Safety Rules.

### CHILDREN VICTIMS

Council Formulates Set of Lessons For Operators of Cars.

THE extreme importance of the safety movement seems lately to have become far more universally recognized in Canada than ever before.

In hundreds of communities safety drives either have been held, are being held or are being planned. For this reason two sections of "Safety Lessons for Automobile Drivers" are here reprinted by courtesy of the National Safety Council:

No laws prohibit pedestrians from using the streets. In fact, pedestrians have equal rights on the streets with automobiles and other vehicles. Just because some pedestrians use the streets needlessly and incalculably, there is no excuse for the drivers of motor vehicles not taking every precaution to avoid injuring pedestrians. Pedestrians outnumber drivers by about 25 to 1, and if drivers as a rule become too careless, pedestrians can pass (or cause to be

passed) laws that so restrict the use of motor vehicles that their efficient operation would no longer be possible.

Drivers can think of many laws that if enacted, and enforced could limit the movement of the pedestrian, but until such laws are passed we must remember that the law is usually on the side of the pedestrian.

### Driver Must Use Care.

Automobile drivers must be especially careful to avoid injuring pedestrians who cross the street at the middle of the block.

Many accidents happen at regular crossings. If pedestrians do not pay attention to your horn, remember that some people are deaf, while others are mentally deficient, and that hundreds of people are using the streets whose old age, youth, infirmities, and physical defects would throw all the responsibility of an accident upon you.

Be especially careful when two or more people are crossing the streets together. Quite often before an approaching automobile one person may stop, or they may separate and go in opposite directions.

Above all, do not unnecessarily or suddenly squawk your horn. Pedestrians may be easily frightened and temporarily "paralyzed."

### Public Gets Nervous.

Drivers should stop 10 feet behind street cars which have stopped to load or unload passengers.

People who have just alighted from a trolley car are sometimes bewildered and do not know which way to go. Give them plenty of time to get their bearings before attempting to pass them.

Regardless of who you think is at fault if your car injures or kills some other person you are usually held responsible. Juries are inclined to be sympathetic towards and favor the pedestrian.

Moreover, no matter who is to blame, and in spite of large sums of

money paid for "damages," the dead cannot be brought to life, nor could anything or anybody console you in case the one killed happened to be your wife, your child, or someone else near and dear to you.

### Children Usually Victims.

Approximately 23 per cent of all persons killed by automobiles are children under 15 years of age.

Many drivers are careful on congested business streets, but careless in residential and other districts where children are numerous.

In spite of the danger, many children make the streets their playground, or in chasing each other or a ball they may suddenly dash into the street right in front of a moving vehicle.

Drivers should assume that every child on or near the street is going to dash suddenly in front of their cars. You can not tell by looking at a child what it is going to do. You have absolute control of your car.

(a) Not only when children are playing in the street, but also when they are playing near the curb, or on the sidewalk.

(b) When passing schools or playgrounds.

### Look Out For Bicycles.

(c) When approaching persons on bicycles, tricycles, roller skates, kiddie cars, etc.

(d) When approaching youngsters who are "hitching a ride" on the vehicle ahead.

(e) When passing ice wagons and street sprinklers.

Drivers should remember the following:

(a) Caution your own and other people's children about the dangers of the street.

(b) Do not allow anyone to ride on the running board, rear tire, or bumper of your car.

(c) Persons on bicycles, or roller skates, or in carts should not be per-

mitted to hitch on your car. In many communities school children are being taught "Safety." Automobile drivers should co-operate in this good work and take every precaution to prevent accidents to children.

Most children taken to school at state expense are transported in motor vehicles.

For ball bearings the best lubricant is a fluid oil no thicker than the heavier machine oils.

If white lead is used to stop gas line leaks the gasoline will dissolve it.

A new form of balancing machine has been invented to test crankshafts for vibration.

## SPRING TIME IS CAR TIME

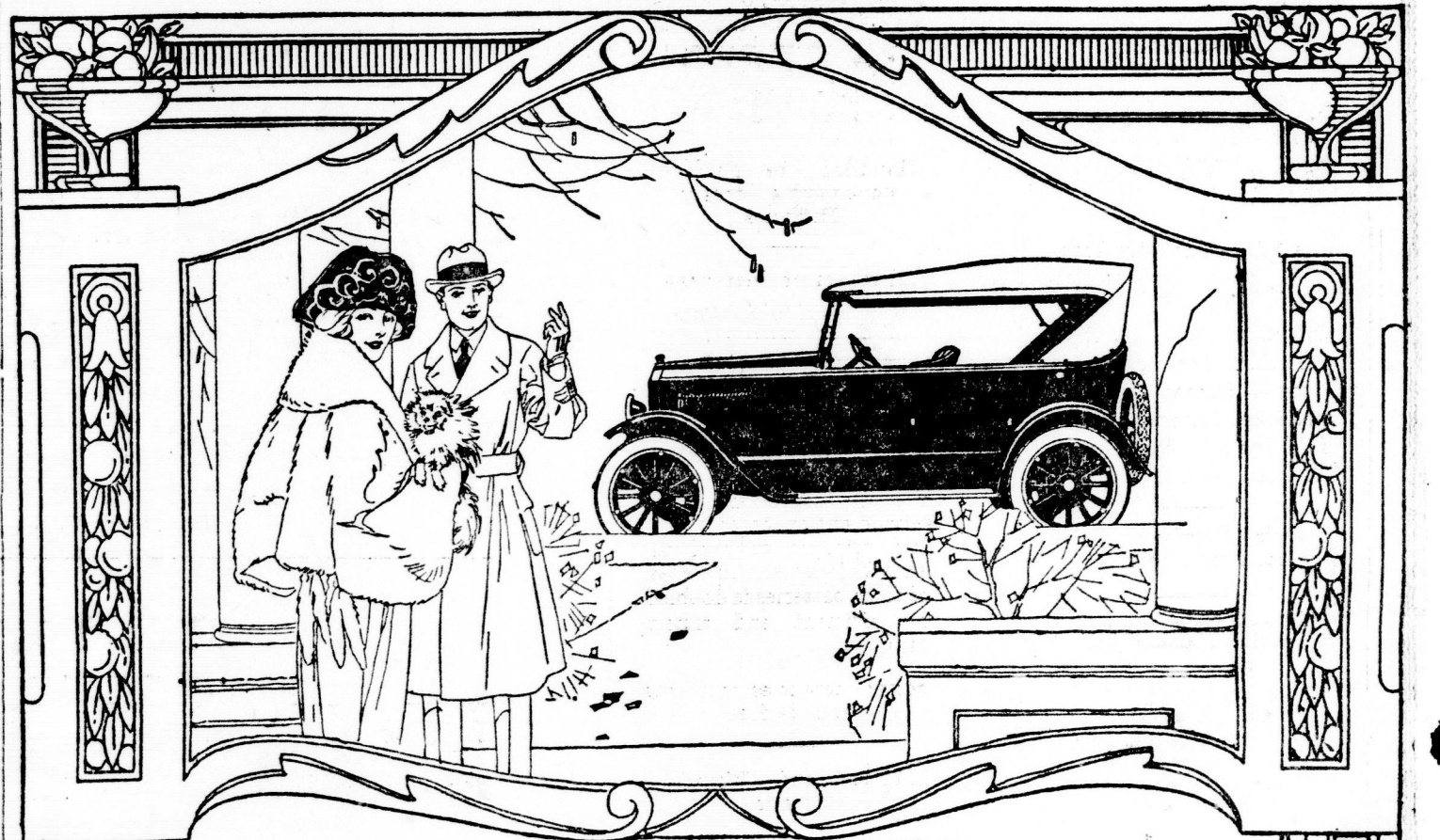
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