

AUTOMOTIVE SECTION

The Biggest Thing in Our Business is Service

When we say we're here to serve you we mean more than just looking at your battery, putting in a little water and saying goodbye.

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Never mind if your battery isn't a Willard. We'll look after it just as faithfully as it were. We want you to know what service at Battery Headquarters is like!

The Auto Shop

MARK B. OWEN

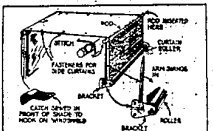
Representing
Willard Storage
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TOP FOR SPEEDSTER QUITE INEXPENSIVE

When Covering Is Lowered It Can Be Housed In the Narrow Space Behind Seat—Slide Curtains Can Be Attached.

When the car is exposed to the rain a covering or top for the speedster is necessary. A simple and inexpensive cover is shown in the illustration. It can be raised or lowered rapidly. When lowered, the top is housed in a narrow space behind the seat, or between the gas-tank and seats.

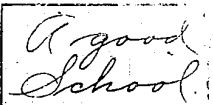
The top consists of a length of waterproof canvas, secured at the edges and mounted on a sturdy curtain-roller. The catch-pawls are removed from the end of the roller to keep the top stretched tightly. Two swinging arms are arranged to fold down over the rolled curtain, and these are held down by means of hooks, which



A Waterproof Top for Your Speedster Will Make Its Winter Use Very Much More Enjoyable.

are used to hold the top against the windshield. One single rod through the curtain is supported by the swinging braces.

Slide curtains can be provided with this arrangement, though these are a refinement that can be added later if found necessary. To use slide curtains, eyelets are placed at the edges of the top and fasteners into the side parts. The top should be built low, about six or eight inches above the heads of the passengers. The absence of top bows allows this small clearance, inasmuch as a bolt can do no harm to the occupants.—Popular Science Monthly.



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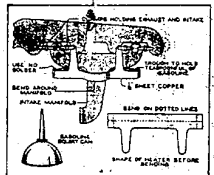
DETROIT BUSINESS UNIVERSITY
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DETROIT

COLD WEATHER HELP FOR STARTING AUTO

Manifold Heater Relieves Owner of Much Trouble.

Device Made From Thin Piece of Sheet Copper Is Attached to Motor by Clamps—Small Amount of Gasoline Needed.

This heater, made from a piece of one-eighth-inch sheet copper, cut and bent as shown, and permanently attached to the motor by the clamps that hold the exhaust and intake pipes, goes far toward freeing the car from cold-weather starting trouble. A squirt-can of gasoline is conveniently carried under the engine hood, and if the car has been standing long enough to become cold about two teaspoonfuls of gasoline are shot into each tube.



Heating the Intake Manifold With a Gasoline Flame Provides an Easy Start in Cold Weather.

A match is touched to it, and the hood lowered. In about one minute the manifold is heated sufficiently to vaporize gasoline drawn up from the carburetor and, on cranking, an explosive mixture is formed. There is but little danger involved in using this attachment, provided the fuel pipes are tight, as they should be—probably not as much danger as there is from back-firing in the manifold of a cold engine.—Charles B. Tomlinson, Portland, Ore., in Popular Mechanics Magazine.

AUTOMOBILE NEWS

Turn corners moderately. If the fan belt slips turn it inside out.

Change the water in the cooling system weekly.

More accidents occur on straight highway stretches than at curves or road intersections.

The latest style passenger automobiles are equipped with no fewer than 16 electric lights.

Gasoline left standing for considerable time, even if it be in a tank, will lose its ignition efficiency.

Gear-shifting at the proper time and in the proper way saves racking the entire mechanism of the car.

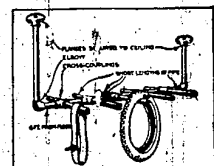
Motorists should stop when there is an accident, whether it be the operator's fault or not, and render all the assistance possible.

A car should be kept out of the sun until dry after being washed. Sunlight has a tendency to damage the surface of a wet car by causing the paint to check.

CONVENIENT RACK FOR TUBES

Device Made From Sections of Light Gaspipe and Connectors Is Mighty Handy.

A rack to hold tubes in the tire repair shop is made as shown in the illustration from sections of light gaspipe and connectors. This rack, compared with racks constructed of wood is the same price, but is far more convenient for placing a tire or tube, and in locating the desired tire or tube when called for.



This Hanging Rack Offers Many Advantages in the Repair Shop in Which Space Is Limited.

venient for placing a tire or tube, and in locating the desired tire or tube when called for.

The rack is suspended by means of flanges from the ceiling and elbows and cross couplings are used to support the several sections of gaspipe together. This rack is hung about six feet above the floor and consequently does not interfere overhead. It will hold a large number of tires and is practically indestructible.—Popular Science Monthly.

Life as I See It. It's tough to want to be poor and so which—Louisville Courier-Journal.

DO NOT BE IN HURRY IN STORMY WEATHER

Some Drivers Have Real Fear Something May Happen.

Careful Inspection of Car Before Beginning Long Journey and Use of Plenty of Common Sense Are Essential.

Some automobile drivers have a real fear of driving in a winter rain, along city streets and country highways. There is a constant dread in the mind that something adverse may happen at a critical moment; the car may stop, something may go wrong with the steering gear or the automobile may fail to perform up to the proper standard in negotiating a steep grade.

"Fears of winter driving would be greatly lessened," declared E. E. Carter, director of sales for the Standard Steel Automotive corporation, "if the motorist would use plenty of common sense in the matter of actual driving together with a careful inspection of his automobile before a lengthy journey is undertaken. One of the really great errors that a driver can make is in traveling during the winter months in an untested car. It is not at all certain that it will slide just enough to cause a collision at a curve or a railroad crossing."

"Of course, the pavements, after the oil has been washed off by the early rains, are in no sense a danger, yet it is well to observe proper precaution and play safe. The reason for driving at a slower speed in the winter months than during the summer is that a motorist should be brought to an abrupt stop as easily as a wet pavement as is the case on a dry stretch of roadway. The brakes may be applied but if the car is going at a high rate of speed it is not at all certain that it will slide just enough to cause a collision at a curve or a railroad crossing."

TIRE LOG WILL HELP OWNER

Use Small Note Book and Keep Accurate Record of Date Put on, Taken Off and Mileage.

Do you keep a tire log? It will help a lot when you go to the adjuster with your tale of woe. Use a small note book and give a separate page to each tire. Write off the vertical columns. Label them as follows: Date put on, speedometer reading, date taken off, speedometer reading, mileage. Make the partial totals in the last column add up any other information necessary, such as kind of weather, etc.

GOOD TEST FOR VENT PIPES

In Filling, Clear Fact Will Be Indicated, No Show of Water Yet End.

In filling a radiator of the car, allow enough water to pass in to bring the level over the end of the vent pipe. If this pipe is clear, as it always should be, the fact will be indicated by the overflowing of the water through it. If it is not clear, the water will overflow through the filler cap and out through the vent pipe, which should be attended to at once.

PROPER CHAINS SAVE TIRES

Without Them Wheels Tend to Spin Around More or Less Rapidly on Slippery Surfaces.

Many motorists seem to believe that tire chains induce wear; not if they are properly used. Without tire chains the drive wheels tend to spin around more or less on slippery surfaces. Sharp pieces of stone, cinders and other similar material in the road cut the rubber and score it deeply, a condition that does not arise when the chains are in place.

AUTOMOBILE GOSSIP

Keep a record of the distance traveled by each tire.

Tires puncture more easily when not properly inflated.

The average term of service for an automobile is six years.

A careful driver seldom gets into the hospital or police court.

Chains should be placed on tires with the hood to the rear.

The great number of the new automobiles coming into the market priced at \$1000.

Turning a wheel at a high rate of speed imposes a tense strain on all parts of the mechanism of the car and should be avoided.

Never attempt to connect a broken or splintered end of a chain with wire. Further wear will cause the wire to work itself into the surface of the rubber.

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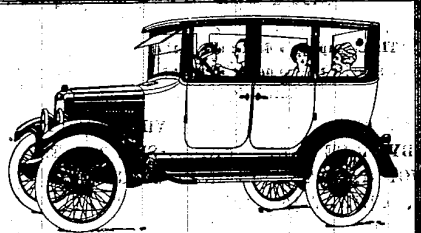
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