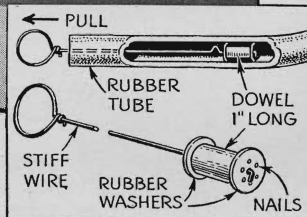


# Hints for Car Owners



A jerk on the plunger starts siphoning action. Drawing at right shows its simple construction

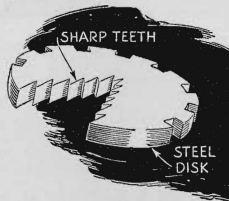


## Simple Plunger Aids in Siphoning Fuel

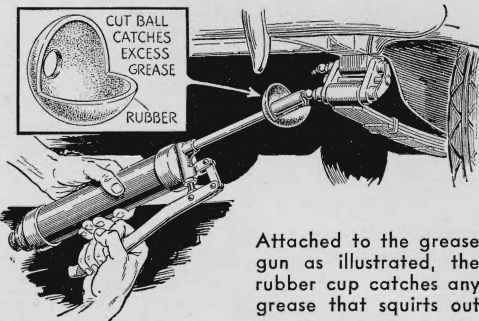
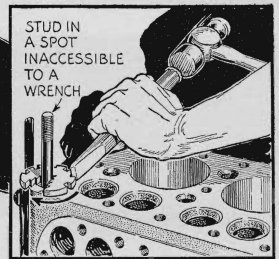
TO START siphoning action when drawing gasoline from an automobile tank, the simple plunger shown at the left is a handy item to have. The unit is easy to make with old clothes-hanger wire and a wood dowel, 1" long and slightly smaller in diameter than the rubber siphoning tube. The dowel is fitted at each end with a rubber washer slightly larger than the tube. When the siphon tube is in place, insert the plunger in the open end. Withdrawing it with a rapid jerk will create enough suction to draw gasoline into the tube and start siphoning action. The mouth of the siphon should be held lower than the end in the tank.—L. H.

## Homemade Tool Turns Hard-To-Reach Studs

STUDS on a motor block that are hard to get at with a wrench can be turned easily with a handy tool made from a steel disk. Cut a V-shape notch out of the disk, give its edges sharp notches, and file a few square slots in the disk rim. The tool is seen in use at right.—A. H. W.



Notched disk is used as at right in turning studs



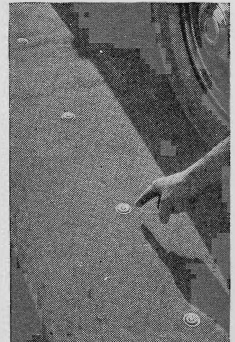
Attached to the grease gun as illustrated, the rubber cup catches any grease that squirts out

## Grease-Gun Drip Guard Made from Rubber Ball

WHILE greasing a car, you can catch excess grease and prevent it from dropping onto your garage floor by attaching to your grease gun a rubber ball cut out as shown above, with a cup to hold grease that overflows.—E. H.

## Tin Roofing Disks Form Driveway Guide Line

TO MAKE it easy to negotiate a narrow or curved garage driveway, where a wall, the edge of a house, or some other obstruction may be grazed if a car is not held to the center of the roadway, I have found that ordinary roofing tins will form a good driving guide. Held to the paving by means of roofing nails, the tins are laid down on the left of the drive in a line that follows that of the driveway. By making his car hug this line, a driver will always be sure to clear all obstructions.—R. G. F.



# DOES BOTH JOBS AT ONCE!

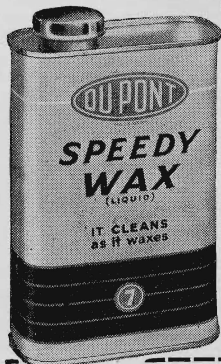
IT CLEANS  
THE CAR

GIVES A  
WAX POLISH



## DU PONT SPEEDY WAX

(LIQUID)



● Putting a wax polish on your car isn't the long, tough job it used to be. With DuPont Speedy Wax, you can clean the finish and give it a lovely wax polish in one operation. You do *both* jobs at once. Speedy Wax is fine for all car finishes.

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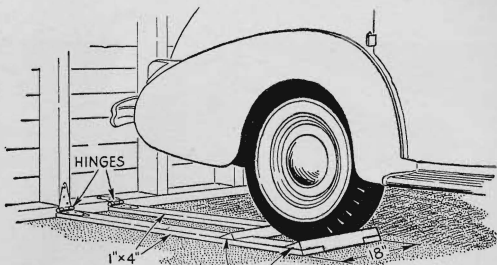
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*(Offer good in U. S. only)*

RUB "PRO-TEK" ON YOUR HANDS before working on your car. Then when you have finished the job, you can wash the grime off easily. Made by Du Pont.



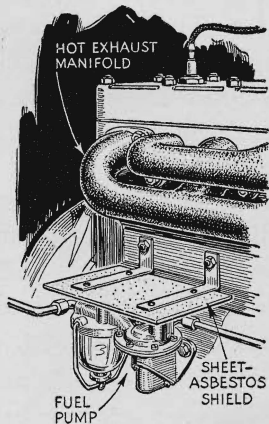
TRIANGULAR PIECES MADE FROM 2"x4" WOOD, FASTENED WITH SCREWS

## Easily Made Stop Device Positions Car in Garage

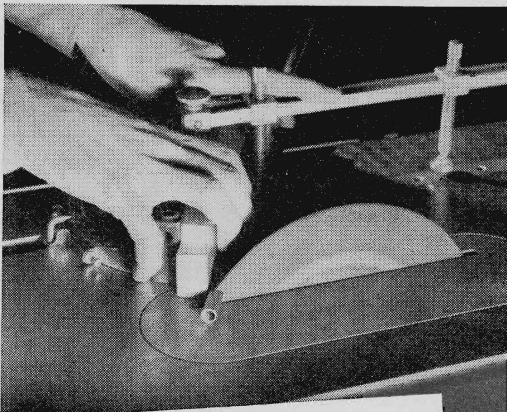
MANY owners of new cars find that they are so long that they leave little clearance between the bumpers and the rear walls and the doors of their garages. As a result, it is difficult to position their cars without either hitting the rear wall or leaving the car so that the doors will not shut. To remove this difficulty, I built the limit-stop shown in the accompanying sketch. It is easy to tell by the "feel" when a car wheel rests between the two stops, the position of which was determined by actual measurement. The two stops are cut from one 18" length of 2" by 4" wood, sawed in half lengthwise as shown, and screwed to 1" by 4" boards hinged to the foot of the rear wall. The hinges make it possible to raise the framework when the floor is swept.—A. E. O.

## Gas Pump Insulated from Exhaust-Manifold Heat

BECAUSE the gasoline pump and filter bowl in my car were located directly underneath the exhaust manifold, I had trouble with "boiling" or vaporizing of the gasoline in the line. After a while, I figured out a way to solve the problem. I made two angles out of strap iron, as shown in the drawing, and drilled them to the proper size to fit the bolts of the valve-cover plate. Then I bolted them to a sheet of asbestos. The arrangement provided an effective heat shield and stopped the trouble at once.—S. R.



## SHORT CUTS FOR THE HOME CRAFTSMAN



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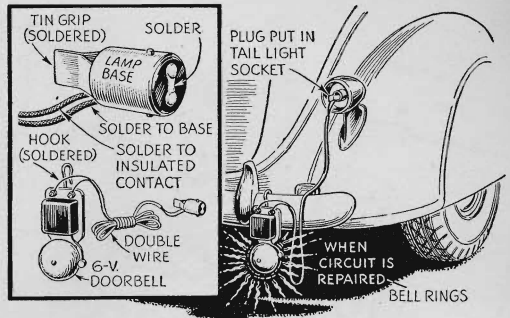
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Niagara Falls, N. Y.

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## Tester Rings Bell When Car Circuit Is Repaired

AN EXTREMELY useful as well as simple device for car owners and mechanics, to be used when tracing electrical troubles through a car's wiring circuit, is shown above. I have saved a lot of time and energy using it. For example, when the tail or stop light fails to work, I plug in the bell in place of the light bulb, then proceed to check the system for the trouble. When the bell rings, I know I have found the break. The audible signal saves me the bother of crawling out from under the car a half dozen times to see if the light is working. I also find the bell is as good as a meter for finding dead shorts. A burned-out bulb with a bayonet base, an old door bell, a little wire, a piece of tin, and a little solder, are all you need to make the outfit. The bell should be provided with a hook so that it can be placed conveniently near any car part being tested.—F. S.

## Auto Mechanics ... Money for Your Ideas

WHETHER you work in a garage or just like to tinker with your car, it's more than likely that you have figured out a novel way of doing various car jobs a little faster or better than usual. Other car owners would be interested in knowing about them, and POPULAR SCIENCE MONTHLY pays well for articles, illustrated with rough sketches or photographs, describing them in detail. Just write a clear description of your pet idea and send it along with illustrative material to the Automobile Editor, POPULAR SCIENCE MONTHLY, 353 Fourth Avenue, New York, N. Y. If your article is accepted, a check will be mailed to you immediately.