

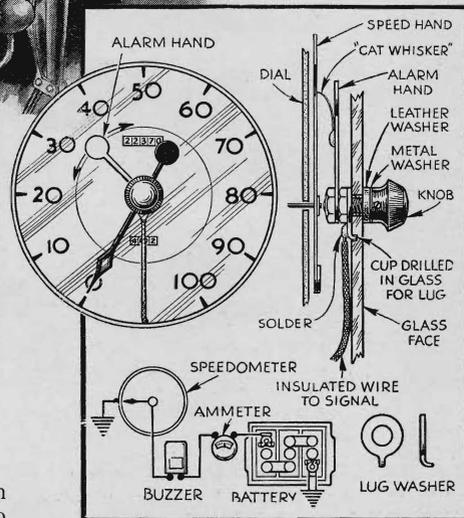
# Timely Aids for Autoists

*Motor-Wise Readers Pass Along  
These Helpful Suggestions for  
Car Maintenance and Repairs*



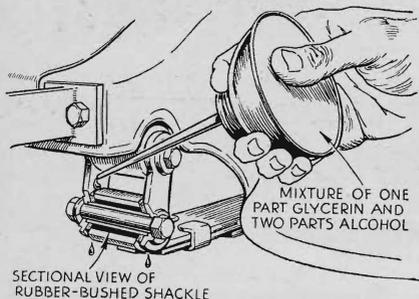
BY ALTERING the speedometer slightly, you can provide your car with a novel speed alarm that will warn you the moment you exceed the speed for which it is set. As shown in the illustration, it consists simply of a movable needle or hand provided with a "cat whisker" and mounted in such a way that the speedometer needle on passing it makes contact and completes an electrical circuit to a buzzer. A knob conveniently located on the speedometer glass makes it an easy matter to adjust the alarm hand to any speed

desired. On tours, the alarm hand can be set at the speed indicated by the signposts along the road. Then, if you exceed the speed limit, the sound of the buzzer will warn you. As indicated in the diagram, one wire leading to the "cat-whisker" arm is the only electrical connection required; the metal speedometer cable providing the return lead or ground. The speed alarm is a big help when driving a newly overhauled car.—H. H. R.



The drawing shows how to put a speed alarm on any ordinary airplane-type speedometer

## Homemade Solution "Oils" Rubber Shackles



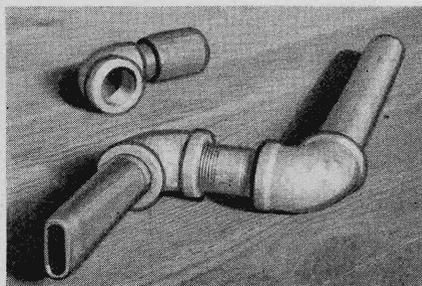
SECTIONAL VIEW OF RUBBER-BUSHED SHACKLE

Glycerin and alcohol make a lubricating mixture that will not cause rubber parts to rot

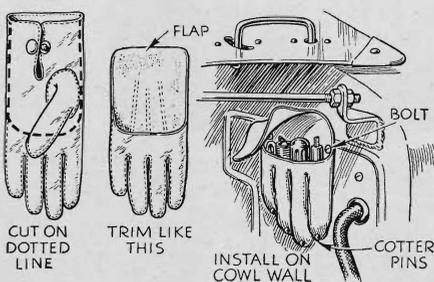
SINCE oil has a deteriorating effect on rubber, it is difficult to know just how to lubricate rubber shackles when they develop squeaks. About the best lubricant I've found consists of a mixture of alcohol and glycerin made up in the proportions of two parts to one. The alcohol, acting as a vehicle for the glycerin which is the lubricating agent, evaporates, leaving a protective covering on the rubber. The solution can be applied to the shackles easily with an ordinary oil can. An added feature of this lubricant is that it is inexpensive to make up.—C. W.

## Handy Wrench Extension Made From Old Pipe

A HANDY wrench extension for getting at nuts and bolts in out-of-the-way places can be made from scrap sections of pipe and old pipe fittings. It consists of two L's, one nipple, one coupler, one length (eight to eighteen inches), and one short section flattened to an oval shape at the end. This flattened piece serves as the socket or holder for the handle of the wrench. With the extension, a wrench can be used in close quarters.—J. M. V.



The wrench handle is slipped into the flattened end of this pipe to reach tight places

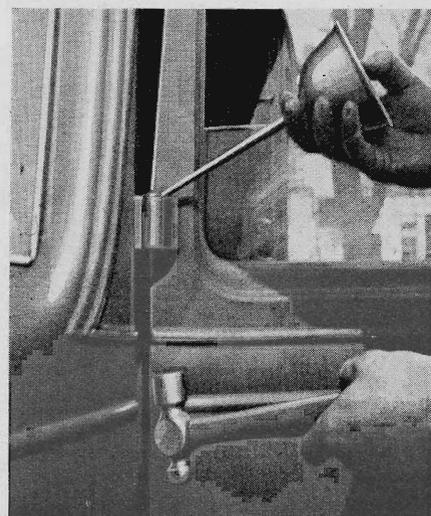


## Uses Old Leather Gloves As Holders for Tools

HERE is a handy way to store spare spark plugs, extra lamp bulbs, and tools. Simply cut the front wrist section and thumb away from an old leather glove and bolt the glove to the front of the metal motor-cowl panel as shown. The fingers of the glove take the spark plugs or tools, while the remaining wrist portion serves as a flap. Being mounted under the hood, the parts and tools always will be handy and dry when needed. If desired, the ends of the fingers can be fastened to the cowl with cotter pins.—A. H. W.

## Easy Way To Silence Squeaky Door Hinges

AN OIL can filled with penetrating oil and a hammer are the only tools you need to eliminate the most stubborn door-hinge squeak. First soak the hinge with the oil. Then, when the hinge parts are well covered, tap the bottom end of the hinge pin with the hammer. This will force the oil around the pin where dry friction generally causes the squeak. The tapping causes the oil to work itself over the whole surface of the hinge pin.—W. C. F.



Tapping the bottom of the hinge pin with a hammer forces the oil to all parts of the pin