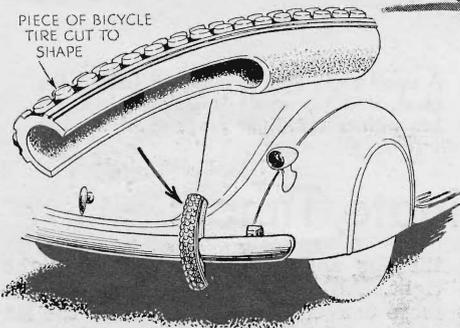


Timely Aids for Autoists

Rocking Body of Car Loosens "Frozen" Spring Shackles

SPRING shackles that are jammed can be loosened for greasing by flexing the car springs beyond their normal bending point. To do this, open one of the car doors and swing it up and down slowly, increasing the amount of swing each time. Meanwhile, have someone apply a grease gun to the "frozen" shackle. The joint will soon loosen so the grease can be pumped in.—C. F.

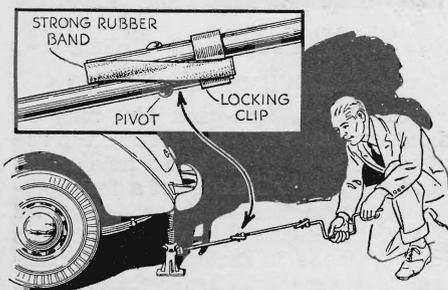


Bicycle-Tire Cushions Protect Bumper Guards

TO PROTECT bumper guards from direct contact with other cars, which is likely to scratch the plating and expose the metal beneath to rust, cut pieces from an old bicycle tire to the shape pictured, and slip one over each guard. The tire segments fit snugly and the tread pattern makes them an attractive accessory.—E. F.

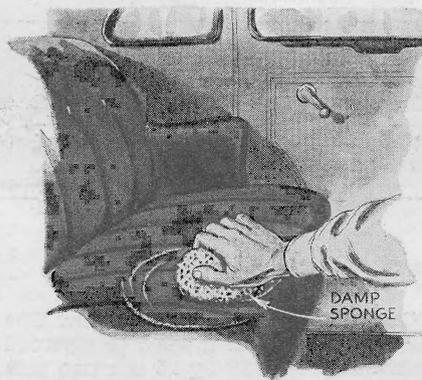
Heavy Rubber Band Locks Joint of Jack-Handle

TO PREVENT the common type of extension jack handle from "jackknifing" when pressure is applied, slip a heavy rubber band over it in the position shown below. When the handle folds up at the wrong moment, it is because the locking clip has shifted from its correct position. The rubber band holds the clip in place.—E. T. G.



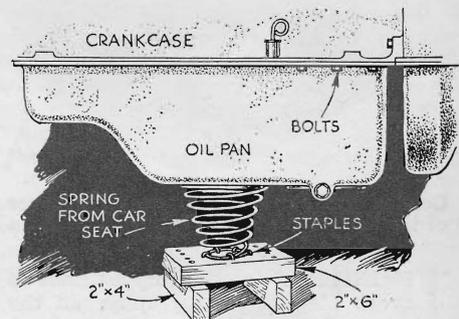
Dampened Sponge Removes Hair From Upholstery

ONE car owner, who carries his dog along on motor trips, found that the animal shed hair on the mohair upholstery, making it very difficult to clean the inside of the sedan. A vacuum cleaner, whisk broom, and other conventional cleaning methods failed to remove the embedded bristles. Finally, as an experiment, he tried rubbing a damp sponge over the seat covering. Much to his surprise, the sponge gathered the hairs into a matted mass that could be picked off easily with the fingers, leaving the upholstery in perfect condition.—B. K.



Cleaning Carburetor Air Silencer with Plumber's Suction Cup

THE air silencer on a modern car can be cleaned thoroughly with a plumber's suction pump. To do the job, I screw the top of the silencer to a board, as shown at the right, and pour about a pint of gasoline into it. Working the suction cup up and down forces the liquid through the screen and flushes out the dirt. If the filter is very dirty, it may have to be flushed more than once. When the filter is clean, I oil it in accordance with the manufacturer's instructions.—W. C. W.



Ingenious Spring Support Holds Up Oil Pan

TAKING off or replacing the crankcase oil pan is made a simple one-man job by the novel arrangement shown in the drawing above. It consists simply of a large coil spring taken from an old seat cushion and fastened with staples to a wooden framework that will bring it to the right height for supporting the pan. When the oil pan is being removed, the spring keeps it in place until all the bolts are taken off, and when the pan is being replaced, the holder supports it in the right position, leaving both hands free to line up the gasket holes and start the bolts, which, on many automobiles, are difficult to get at.—A. W.

