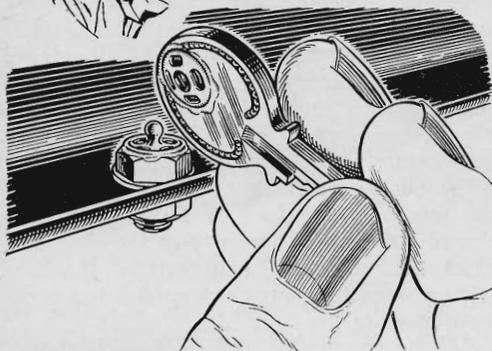
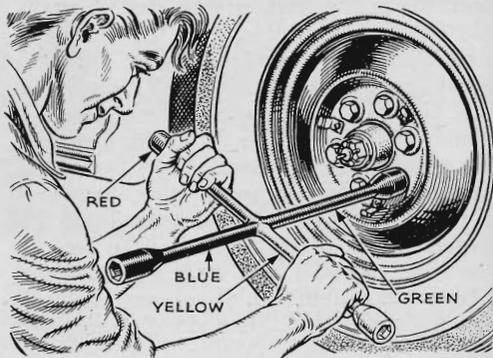




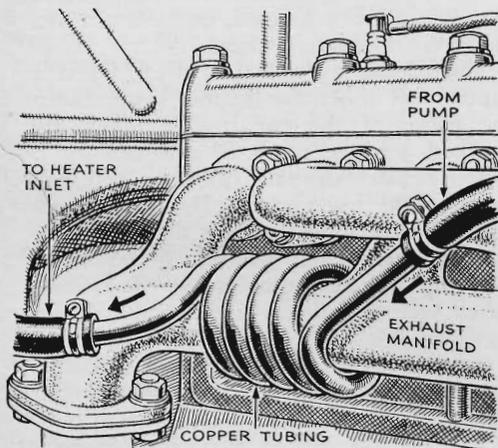
Hints from the Model Garage



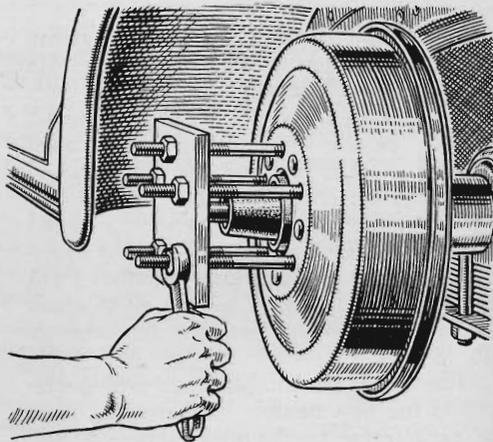
Key Hidden on Dress Snap. If you'd like to keep an extra gas-cap key hidden in your car, here's one way of doing it. Solder half of a dress snap to the key, the other part to the head of a small bolt. Then insert the bolt in any convenient hole—in the dash flange, glove compartment, or other place where the key will be out of sight.



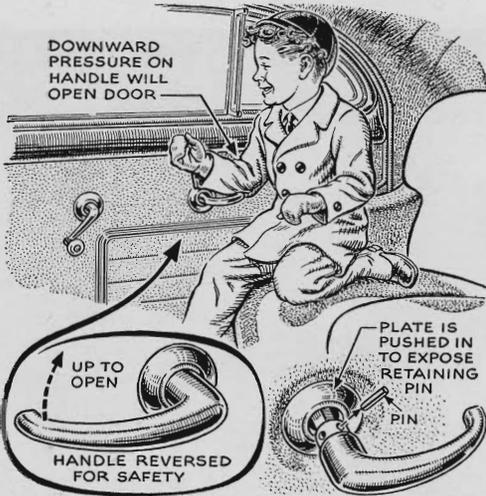
Paint Your Tire Wrench. Some good ideas are so simple that you wonder why a lot of people haven't tried them. Here's an example. Regis Gutwald writes from Minneapolis that he has painted each arm of his tire wrench a different color. When the wrench is laid down during a job, the color helps identify the socket in use.



Heater Output Boosted. John P. Berkyta, of Lyndhurst, N. J., writes that the hot-water heater in his car failed to provide the warmth he likes. He solved the problem by making use of some of the heat that's wasted out of the exhaust pipe. Taking a length of copper tubing, he wrapped it several times around the exhaust manifold, connecting one end to the heater and the other to the pump.



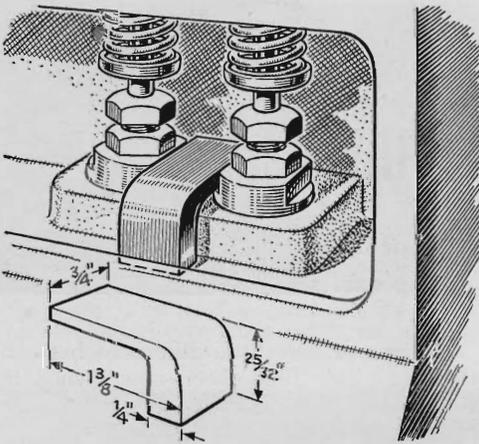
Stubborn Wheels Come Off. Here's a wheel puller devised by Raymond Holtz, of San Francisco. It consists of a square of $\frac{1}{2}$ " steel plate and five studs. Five holes in the plate match those in the brake drum. One end of each stud is threaded to go into the brake-drum holes, the other to take a standard nut. In use, the nuts are tightened alternately. Pressure against the axle pulls the wheel.



Children Can't Fall Out. In some cars, the handles are pressed down to open the doors. This is a hazard, since any rider, especially a child in the back seat, may lean on the handle and open the door by accident. S. W. Trossell, of Manhattan, N. Y., found a simple solution for this. He reversed the handles.

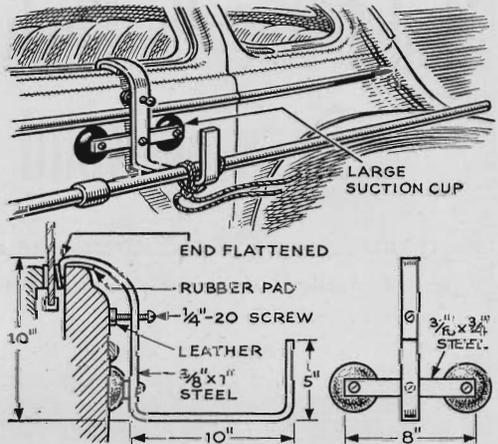


Syringe Used as Siphon. Neoprene tubing, a short piece of copper tubing, and a syringe may be quickly assembled to siphon gas from a car. File a half-round hole in the copper. To use, compress the syringe bulb, place your thumb on the hole, allow the bulb to expand, and uncover the hole. Remove the syringe when gas starts.



Tool Simplifies Valve Work.

Here's just what the doctor ordered for adjusting Kaiser valves. Machined to an exact width of $\frac{3}{4}$ " the tool slips between the flats of adjoining cam followers. This jams them, leaving your hands free to make the adjustment. The longer arm is filed to $\frac{3}{8}$ " thickness. A. G. Patrick, of Hot Springs, Ark., made the tool when he found there wasn't space for a conventional wrench.



Brackets Carry Pipe.

If you sometimes must carry long lengths of pipe, lumber, or other materials on a car, a pair of removable brackets like this will make the job easier and prevent the finish from being scratched. A $\frac{1}{4}$ "-20 screw clamps the flattened top end of the bracket to the car. Use at least $\frac{3}{8}$ " steel, or heavier if possible. When the brackets are complete, give them a coat or two of paint.