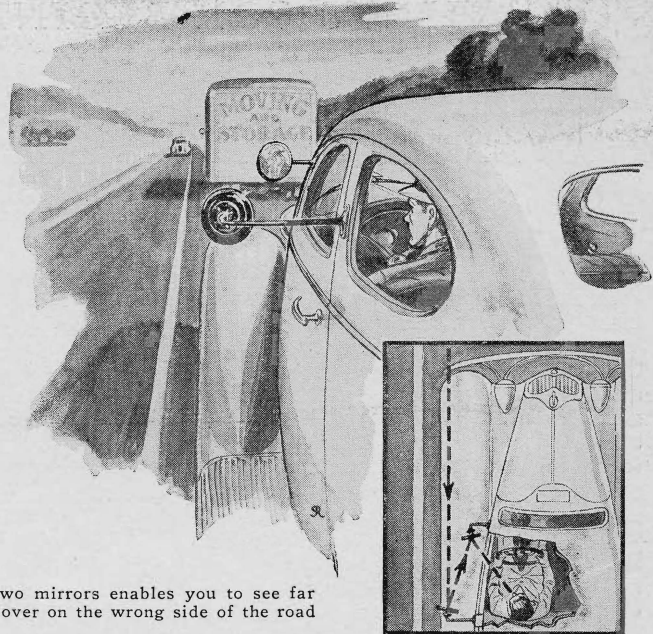


# Timely Hints FOR CAR OWNERS

## Double Mirrors Make Passing Safer

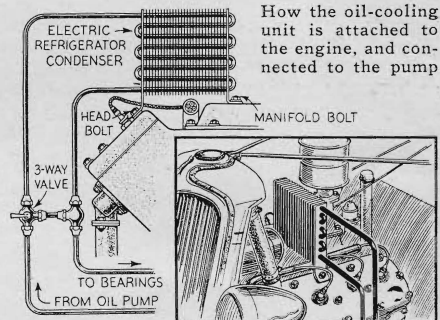
PASSING large trucks on a narrow, busy road is always dangerous because it is impossible to see approaching traffic without driving one's own car partly on the wrong side of the road. The danger can be eliminated, however, by the double-mirror arrangement shown in the drawings. One mirror is of the usual type, mounted on the front-door hinge or windshield frame, facing backward. A second mirror, facing forward, is attached to the central pillar of the body, behind the front door. It should project as far as the outside edge of the running board. Once the mirrors have been adjusted, which will call for a little experimenting, they should be clamped firmly.—J. W. W.



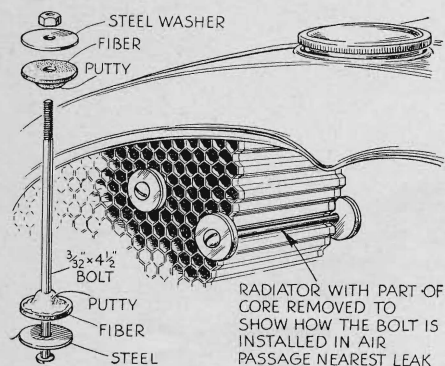
This arrangement of two mirrors enables you to see far ahead without pulling over on the wrong side of the road

## Oil Cooler Is Made from Old Refrigerator

THINNING out of motor oil in the hot summer months can be prevented by equipping your car with this homemade oil cooler. It consists merely of the condenser unit from an old electric refrigerator attached to one of the car's cylinder-head nuts in such a position that it gets the most benefit from the fan's air blast. The oil passes through it from the oil-pump outlet to the bearings. The three-way valve shown in the drawing serves as a by-pass to cut off the cooling unit in winter.—R. J. H.



How the oil-cooling unit is attached to the engine, and connected to the pump



RADIATOR WITH PART OF CORE REMOVED TO SHOW HOW THE BOLT IS INSTALLED IN AIR PASSAGE NEAREST LEAK

## Leaky Radiator Fixed With Bolt and Washers

WHEN the honeycomb-type radiator of my car developed a leak in the soldered edge seams, I repaired it with a long, narrow bolt, such as is used in installing radiator shields, a nut, two fiber washers, and two steel washers, along with a little putty; arranging these parts as shown in the drawing. Tightening the nut forces the putty into the fractures making a repair that will last a long time.—C. P.

## Finding Sticking Valve

A MISS in a car's engine caused by a sticking exhaust valve can be detected by listening to the exhaust while the engine idles. A hissing or blowing noise means that a valve is failing to close.—C. F.

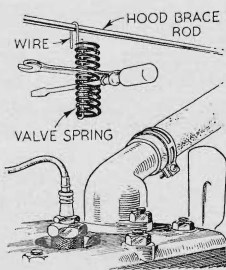
## Tobacco Can Makes Good Emergency Road Flare

AN IMPROVISED road flare like the one shown in the drawing may prevent a serious accident if a flat tire or engine trouble forces you to stop your car on a dark road. Simply take a tobacco can, or similar container, fill it with sand or loose earth, and pour in a little gasoline. Set the can several yards behind the car; once lighted, it will burn for half an hour or more, giving adequate protection from approaching cars.—W. A.



## Coil Spring Supports Small Tools

SMALL tools are easily misplaced when working on an automobile engine, and much time is wasted in looking for them. To provide a handy rack for pliers, wrenches, and screw drivers, get an old valve spring, and hang it from the radiator tie rod with heavy wire. Tools are held firmly between the coils.—A. H. W.



A coil spring makes a handy small-tool rack

## Cleaning White Tires

THE PROBLEM of cleaning white-wall tires can be solved easily by using a brush and one of the paste-type hand soaps. When the tires have been well scrubbed, the soap and dirt can be wiped off with a wet cloth. This is especially effective in removing curb marks.—L. V. H.

## Homemade Tire Spreader Makes Inspection Easy



Four spools, pivoted between sheet-steel frames, make this tire spreader

WHEN you are trying to locate the nail or break in the fabric that caused a flat tire, one of the first things to do is to inspect the inside of the casing. This little spreader makes it an easy task. Cut two pieces of sheet steel to the shape illustrated, and at each corner mount a wooden thread spool, bolted or riveted so it can turn freely. The spreader is put between the beads as shown. It slides along freely, making it easy to check every inch of the tire.—H. A.