SHORT CUTS for Auto Jobs

Homemade Brush and Blower Clean Motor Quickly ... Sliding Windows Can Be Put in Open Car Curtains



blower, shown above is an in-

expensive timesaver for clean-ing an automobile engine. The blades from a discarded electric fan of the midget type are mounted on the wire shank of a spoke brush from which the wooden handle has been removed. By means of a loop, a rightangle bend, and some solder, the end of the wire shank is then attached to the threaded end of the armature of a motor from on old horn. The handle taken from the spoke brush forms a convenient grip when attached to the rear of the horn motor housing. It is connected to the car battery by means of a suitable length of lamp cord.

Windows for Open Car

RIGID sliding glass windows can be easily installed in the side curtains of an open car. The wood frame, shown in Fig. 1 consists of four pieces, each having two 3/16-in. grooves to receive the two glass panels. The top and bottom pieces and one end of the frame should be fas-tened in place first, the stationary and movable windows slid in, and

then the remaining side attached. The front glass can be held in place with cement.

Drive Shaft Tube

WHEN assembling the rear end of a car after repairs have been made, it is usually quite difficult to lift the drive shaft tube and at the same time guide the end of the shaft into place. However, if a long plank is placed over

the rear axle and under the shaft tube in the manner indicated in Fig. 2, the long overhanging portion of the plank will counterbalance the shaft and leave the hands free to do the guiding.

Measure the Toe-in

BY CLAMPING a small, slide caliper rule to one end of a U-shaped wooden frame similar to that illustrated in Fig. 3, you can make a useful gage for testing the toe-in or "gather" of the front wheels on

your car. The short horizontal members of the wooden frame should be located so that they are in the horizontal plane of the front axle when the gage is in place. To use the gage, place the frame between the rims at the front of the wheels and clamp the caliper in place in such a way that the head touches the rim when the slide is closed. Next, move the assembled gage to a corresponding position at the back of the wheels and open the caliper until the head touches the rim. The reading will be an

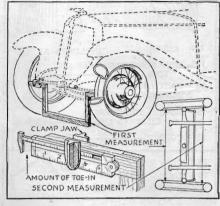


Fig. 3. By clamping a slide caliper to end of a U-shaped wooden frame, you have a gage that can be used to test the toe-in of front wheels

accurate measure of the toe-in. The proper value for your particular car can be obtained from the general instruction book-let issued by the manufacturer.

Troin Guide Mirrors

TWIN mirrors fastened to the rear wall of a one-car garage will aid the driver when he backs the car through the narrow doorway. The mirrors, placed about ten inches from the side walls as

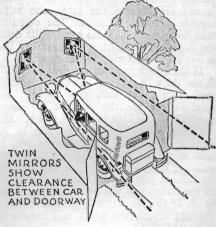


Fig. 4. Two mirrors, placed near the side walls of a small garage, guide driver in backing out

in Fig. 4, should be adjusted so the driver can see the back fenders on each side. By

looking first at one mirror and then at the other, it is a simple matter to keep the car centered in the doorway. The mirrors should be large enough to give a good view of the fenders and each side of the car. Suitable mirrors can be purchased in most five-and-ten-cent stores. Adjust each mirror by having someone hold it at various angles while you check the view from the driver's seat.

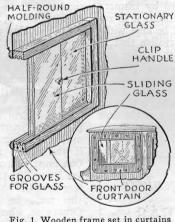


Fig. 1. Wooden frame set in curtains of open car can be fitted with glass windows that will open by sliding

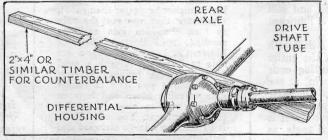


Fig. 2. A long plank is placed over the rear axle and beneath the drive shaft tube, to raise tube so the drive shaft can be guided home