

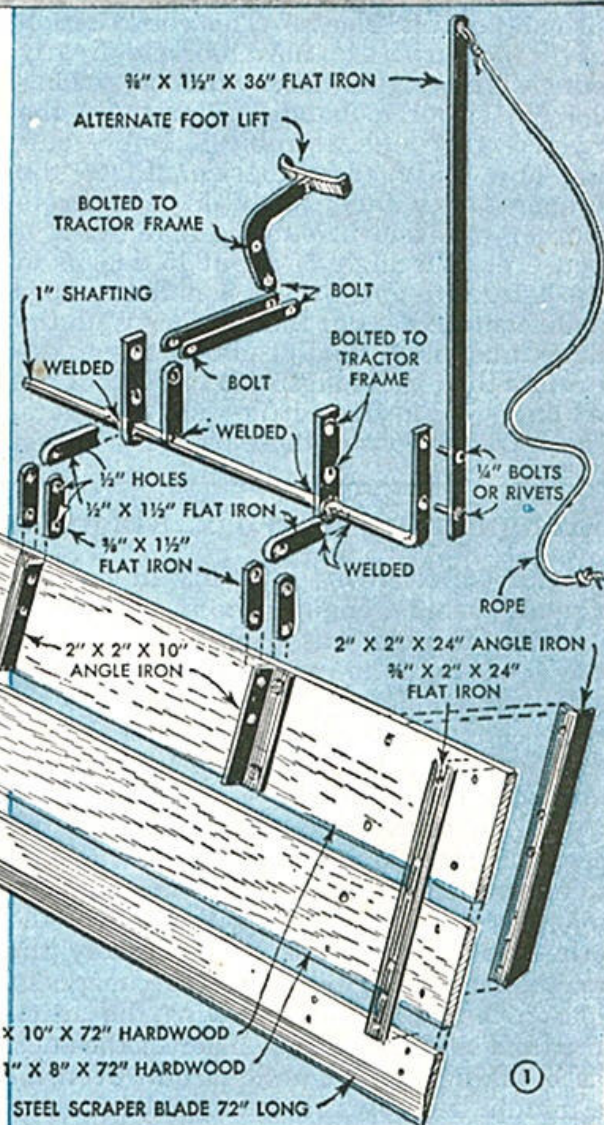
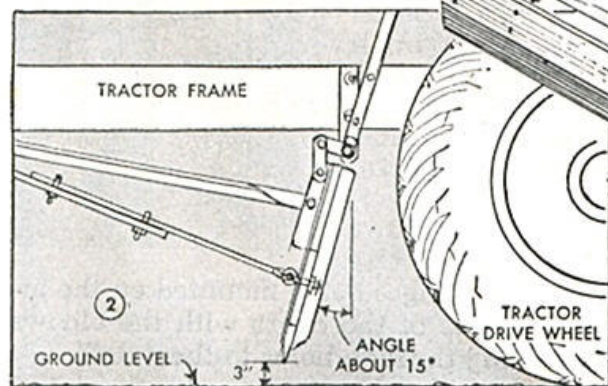
# TRACTOR SCRAPER

made in farm shop



YOU can make this tractor scraper easily in your farm shop at low cost for materials. It's especially designed for moving loose soil, leveling large areas before planting, light grading, preparing fields for irrigation—any leveling or filling job where loose dirt, gravel or sand must be moved or leveled quickly at a minimum cost in labor and time. Although shown arranged for two-man operation it can be handled by one man on occasional jobs by fitting a foot-lift mechanism as suggested in Fig. 1, which shows a lift linkage designed for hand or foot operation. With minor changes this linkage can be fitted to most tractors of cultivating height and having side-mounting frames.

Fig. 1 also shows the assembly of the scraper body, which consists of a steel scraper blade and two hardwood boards held in place



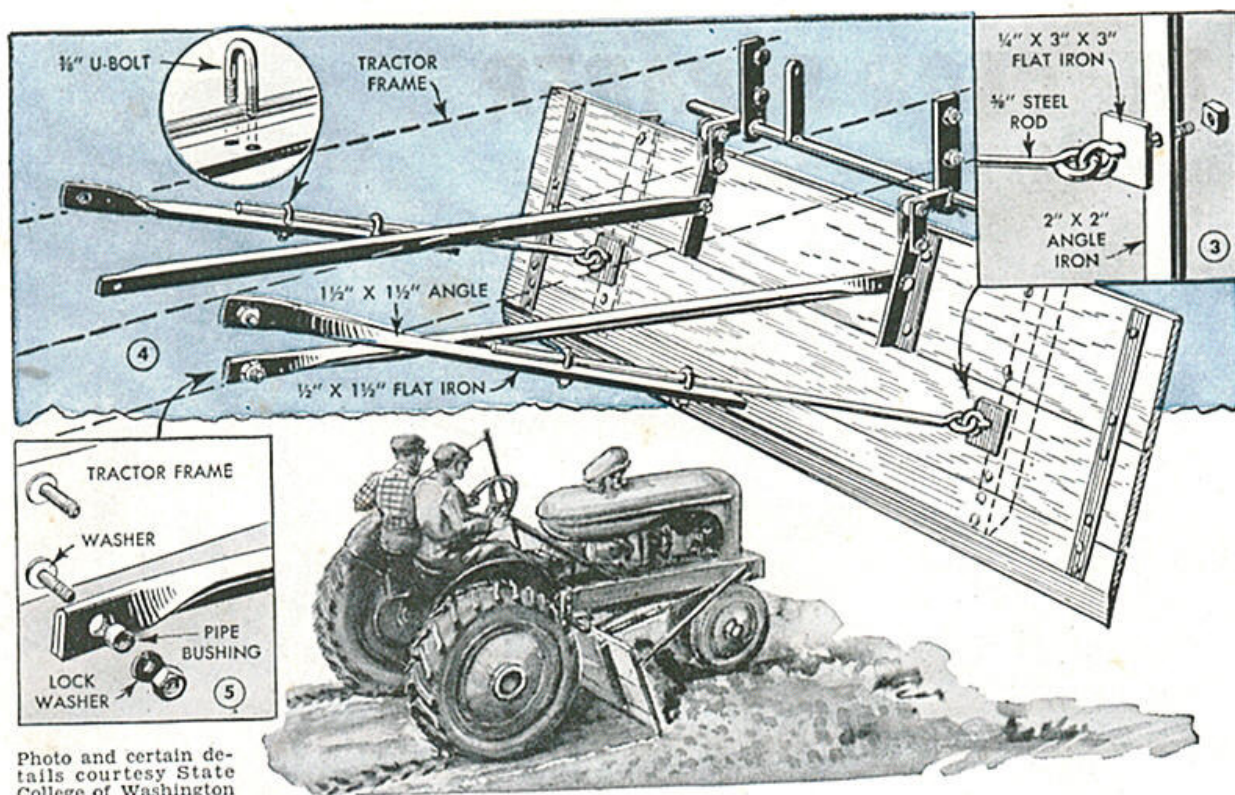


Photo and certain details courtesy State College of Washington

with angle-iron "cleats." This construction serves the purpose on most jobs and greatly reduces the weight, thereby making the implement easier to handle. Start with the scraper body and assemble it before cutting any other parts to size. Place the scraper under the tractor on a concrete floor or other level surface and block it securely at an angle of about 15 deg. as in Fig. 2. Be sure to get the assembled scraper blade centered under the tractor. With the blade thus in working position you can determine the exact length of the parts of the lift linkage, Fig. 1, and the dual drawbars, Fig. 4. Dimensions of these parts have been

purposely omitted as these measurements must be taken direct from the tractor on which the scraper is to be mounted. Ordinarily the lift linkage should be so assembled as to give a lift of about 3 in. above the ground when the tractor is on the level, Fig. 2. Of course, a higher lift can be arranged if desired. On some tractors it may be necessary to make the scraper body of a lesser height than indicated in order to allow room for the higher lift. Figs. 3 and 5 show how the drawbars are attached to the scraper and the tractor frame. Use lock washers under all nuts so that parts do not jar loose.

## Strengthening a Weak Magneto

After experiencing difficulty in starting a small gasoline engine, one farmer found that the trouble was caused by a weak magneto, which he repaired by using magnets from an old one. These magnets were large enough to slip over those on the engine magneto. In setting the larger magnets over the others, be sure the poles are placed to correspond with those on the regular magneto, otherwise they will tend to neutralize each other. Also measure the magnets to be sure they will slip over the others, as heating them will destroy the magnetism. In removing the magnets, loosen them without removing the armature and slip a piece of iron across the ends, as breaking the magnetic circuit even for a minute decreases their magnetism.

## Pipe Handles Open Heavy Doors

For opening heavy sliding doors, you will find handles assembled from pipe superior to the common type as they permit both hands to be used to exert a strong pull. The handles are about 20 in. long, and have elbows and floor flanges on the ends, the flanges being mounted on the inside surface of the doors with the elbows projecting through holes to the outside.

