

Instructions for attaching Self-Raker to Dodge's Combined Machine.

FOR REAPING.

Attach drag bar to forward arm of machine; put it in outside hole. The platform is attached to the drag bar in the same manner as for hand raker. To do this easily, the drag bar and platform should be blocked up about six inches from the ground. The frame, or wrought iron foot, is fastened to the inside shoe of the platform by means of bolts which fasten the shoe to the platform, which are long enough to take the rake frame or foot and the table support. The table support is a wrought iron arm, about eighteen inches long, provided with a chain sixteen inches long. This table support must be put on the top of the rake frame or foot with the *straight side* down. After placing the rake frame or foot on the shoe bolts, with the forward end of the rake frame on the top of the drag bar stand, the small bolts that fasten the frame to the drag bar should be put in their places with the heads down. Put the nuts on, to prevent the bolts from dropping out; do not screw them fast until the shoe bolts are first made secure. Before proceeding further with the rake, the table support should be attached to the machine by means of the chain provided for the same, and the grain wheel put in its place on the outside of the table. There are holes provided in the table to fasten the grain wheel, so as to cut the stubble at any desired height, from three to twelve inches. The rake heads can now be put on the iron arms. Should the rake teeth pass too near the guards on the outer end of rake head, they can easily be adjusted, by unscrewing the bolts that fasten the rake head to the iron arm, and place a washer or a piece of leather between the iron and wood at the inside bolt, to raise the teeth on the outer end, or at the outside bolt, to lower the teeth. The rake teeth at the outer end of the rake head should pass from one-half to two inches above the guards. Now the shoe must be bolted to drag bar stand, with a bolt that is provided. There is a board provided to shield the drag bar stand and shoe, that is to be bolted to the drag bar stand with one bolt. The shifter is now to be put in its place. Take off the lever from the shaft; pass the shaft through the hole in the tongue socket from the off side, with the arm down. Fasten the lever to the shaft again. Now take the chain that is attached to the switch arm; pass it through the slot in the drag bar board, and hook the same to a rod that is attached to a shifter arm, leaving the switch free to be raised above the rake arm, or to drop below the same, at the will of the driver. The lever chain should not be very slack when the switch is down. To put on the driving chain, you will place the chain on the axle pulley, and take off the bevel pinion. Place the pinion pulley inside the chain; now put the pinion in its place, (after oiling the bearing,) and secure the pinion in its place by the nut and washer provided for the same. It will be well to take off the pinion to oil its bearing every two hours. The rake cam should be oiled often, with oil or lard, where the rake arms run on the same. The rollers should be oiled two or three times a day. The switch should also be oiled often, where the rollers run on it. There are holes in the rake frame, and in the drag bar stand, by means of which the chain can be kept at its proper tension, should it stretch by using. Be sure to keep the cam and rake arms well lubricated when the same are new. After they become smooth, bar soap is a good substitute for grease.