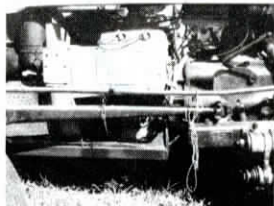


## Retrieving Flighting

When an auger breaks under a grain bin floor Tom Knutson, Vermillion, S. Dak., has a slick way to retrieve it. He simply takes a piece of auger flighting, without any pipe through the center of it, and screws it onto the auger he wants to retrieve. The flighting winds down the length of the broken auger and holds tightly to it. He then welds a piece of pipe to the end of the flighting and pulls it out. He says it holds so tightly he can even use a tractor to pull on the flighting and it'll hold.



## New Ford 8N Engine

Robert Kraft, Little Sioux, Iowa, installed a Wisconsin air-cooled 4-cyl. engine in a Ford 8N tractor and, after 2 years, says it's worked well with no problems.

"The Wisconsin engine has a blower and a flywheel on one end and a straight 1 7/16-in. dia. keyed shaft on the other. To use the motor in the tractor, a second flywheel and pressure plate, as well as a clutch disc and pilot bearing, needed to be installed on the straight shaft end. I used a spacer or adaptor about 3 1/2 in. thick to attach the motor to the tractor housing. Also, I had to build a frame to carry the front axle and tractor," says Kraft.

"In addition, I lengthened the tractor frame about 8 in. so the front axle mounting plate wasn't too close to the blower screen on the engine. The hood on the 8N is made to tip forward to expose the gas tank. I moved the gas tank to where the radiator was mounted before and put the muffler on the hood so it lowered down over the exhaust pipe.

"This was a fairly difficult conversion project and good alignment is needed to make the clutch throwout bearing and mounting holes on the spacer fit straight and square. Also, the frame should be built from heavy square 2-in. tubing to be able to stand the torque when one front wheel carries all the load of the tractor. The frame should be constructed just below the air housing on the motor, but positioned to clear the steering arms and axle push arms that bolt to the tractor transmission.

Contact: FARM SHOW Followup, Robert Kraft, Rt. 1, Little Sioux, Iowa 51545. (ph 712 649-2392).



## Mechanic's Desk

Chris Sorensen and his brother Ferrin have developed a "mechanic's desk" which Chris originally built for use in his auto repair shop. Ferrin, who farms near Garland, Utah, says it also works great for repair work in his farm shop.

The desk is made from steel tubing and rolls around on creeper casters. Height of the tray is adjustable to reach the top of any auto or truck fender. The desk is equipped with a light and a multiple electrical outlet to power tools. "Gives you a convenient spot to put parts and place tools while working on equipment," says Ferrin.

Contact: FARM SHOW Followup, Ferrin Sorensen, Rt. 1, Box 788, Garland, Utah 84312.

## Deep Socket

"It works great to remove band-type duals from tractors," says Ed Elsbery, Ogden, Iowa. He saved a 1 1/2-in. socket in half and welded the top half to a 1-ft. long 1-in. dia. steel pipe. He then welded the bottom half of the socket to the other end. "That gives me a 1/2-in. drive socket that's over a foot deep. Used with an air wrench, it's handy for work in hard-to-reach spots."

## WD Front Fix-Up

"When threads in the bolster on the front-end of our Allis Chalmers WD tractor got bad, and the bolts kept coming loose, we had to figure out a way to fix it," says Anthony E. Griesman, Spalding, Neb.

"We used a 3/4-in. thick steel plate on front and two side plates made from 1/2-in. thick steel. The first step is to bolt the sides on flush with the front of the bolster. Then I welded on the 20-in. wide front plate, welding it along the 13 1/2-in. sides. A hole was left in the front of the plate for a crank," says Griesman.



## Shop Bench On Wheels

"It's strong enough to hold a V-8 motor," says Robert Kraft, Little Sioux, Iowa, who built a portable shop bench on the frame of an old washing machine.

The metal bench top is bolted to the top of the old washer tub. Two wheels and a third dolly wheel transport it around the shop. Kraft cut holes in both sides of the washer tub to hold parts on tools when fixing a motor, or when making other repairs.

"I made another one using a 50 gal. barrel and it works good, too," says Kraft.

## Deere Forage Harvester

"There are times when I would like to order psychiatric exams for the engineers who designed the Deere 3960 forage harvester," says Doug Robertson, Carstairs, Alberta. "The harvester cuts well and efficiently but the top rear and bottom rear rolls, which do all the work, have non-greasable bearings. We go through 2 or 3 top and 1 or 2 bottom bearings a season cutting custom silage. Also, the gearbox chain idler is placed in such a way that instead of taking up slack from the chain it takes the full force from the feedrolls. To top it off, the standard Deere idler is a sprocket with needle bearings in a plastic race that lasts, at most, two days when cutting 30 ton per hour. We replaced it with a sprocket which has aircraft alternator needle bearings — all metal — inside and then we counter-drilled the idler shaft, and put a grease nipple on the end which lubricates the bushings the needles run on.

"With this arrangement we can now go a season without having trouble. The new 3970 has greasable feedroll bearings but the idler remains in the same place, although it's on a bigger shaft. It's too bad they handicapped a good machine with a basic engineering design flaw that will continue to cause trouble."

## Massey Repair Job

"I have a Massey-Ferguson TO-35 tractor made in the late 50's. When I needed to replace the reverse idler gear, the dealer told me I would have to take out all the other gears in the transmission first. Not wanting to spend all that time, I found a faster way. I hooked a piece of stiff wire around the gear to support it, then pulled out the idler shaft from the back of the transmission. The gear can then be snaked out around the other gears from the top. To install a new gear, you just reverse the procedure. It saves 4 or 5 hrs. of work," says Jack Collins, Enfield, Conn.

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