George "Bing" Ribble, Hettick, Ill.: "I built this high pressure washer out of a rebuilt compressor from a local car wash. It's powered by a 5 hp electric motor off an old silo unloader. I added a second pulley to the compressor to get the rpm's up high enough

to develop 2,000 psi for washing. An old car jack installed between the motor and the pulleys serves as a belt tightener.

"The machine mounts on a cart built out of sq. tubing and fitted with two old lawnmower wheels.

"A garden hose connects the pump to any standard water faucet. Out the output side, I use 50 ft. of 1/4-in. dia. hydraulic hose and a wand-type spray nozzle.

"It didn't cost more than $200 to build and works as well as any commercial unit to keep my equipment clean."

George Holsapple, Jewett, Ill.: George uses old bags of seed corn as a cheap source of fuel to heat his 54 by 54-ft. shop. He burns

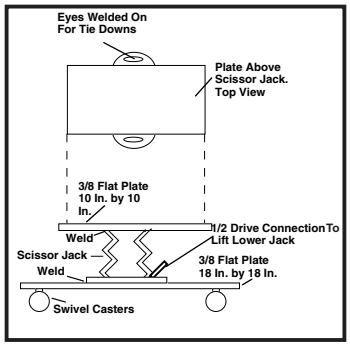
the corn in a three-year-old A-Maize-Ing Heat furnace (Big M Mfg. Co., R.R. 3, Box 319A, Taylorville, Ill. 62568; ph 217 824-9372).

"This is the perfect way to get some use out of old seed corn you can't use anymore," George notes. "Friends give it to me for nothing and I usually have some left over myself. The furnace uses about 3 bu. per day to heat the shop to 60 to 70 degrees, even when it's 0 degrees outside. Besides keeping the 10 bu. hopper full, the only other maintenance is removing clinkers from the bottom of the furnace."

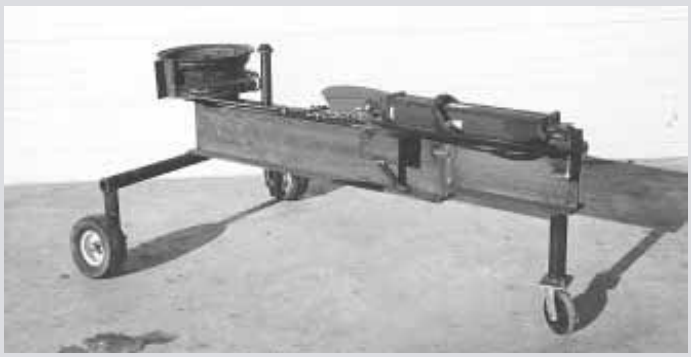
Chop Gibson, Scranton, Iowa: "I have a Sukup bin unloading auger that had trouble with the roller chain which kept jumping off. I replaced the sprockets with larger ones to try to solve the problem. It worked.

"I built a cart in my shop for a hauling bulk oil barrels. I installed a pump on the barrel so that when I changed oil, I pushed the cart over to the tractor or vehicle to pump in the new oil. There's a meter on the pump."

Gregory L. Reif, Claflin, Kan.: "I needed a transmission jack but couldn't justify a new one so I built my own. I used two



pieces of 3/8-in. thick steel plate - one 18 by 18 in. and the other 10 by 10 in. I welded a scissor jack between the two plates. Four swivel casters under the bottom plate let me roll it all over the shop. A 1/2-in. drive ratchet raises and lowers the jack easily even with a transmission resting on it. I welded eyes to the sides of the top plate for tie downs.



Shop-Built Pipe Bender Good As Factory-Built

Gil Wammen built a portable pipe bender that he uses to make corral panels and legs for feed bunks. The Reva, S. Dak., farmer says it works as well as anything he could have bought.

"You can put bends of 180 degrees in up to 11 ga., 1 1/2-in. sq. tubing," says Wammen.

He started with a length of 10-in. I beam, mounting it on a wheeled frame built out of 2 3/8-in. dia. pipe. It's fitted with two 8 in. wheels on one end and a 6 in. caster wheel on the other.

A 4 by 2-in. hydraulic cylinder with 30 in. stroke mounts on top of the I-beam. A car wheel hub fitted with a 16 in. tire rim mounts at one end of the I-beam. Two 2 in. wide pieces of angle iron weld to one side of the wheel rim. A 1 1/4 in. dia. piece of pipe mounts on the I-beam next to the tire rim. A length of steel cable runs from the cylinder to the wheel rim.

To use, Wammen simply slips a length of pipe between the pipe and rim and turns the rim by rotating the cylinder.

To make different size bends, Wammen simply replaces the 16 in. tire rim with a larger or smaller one.

"It works great," Wammen says, "and it only cost about $200 to build, including new wheels and hydraulic cylinder."

Contact: FARM SHOW Followup, Gil Wammen, Box 35, Reva, S. Dak. 57651 (ph 605 866-4683).

FARM SHOW®

Money-Saving Repairs & Maintenance Shortcuts

Have you come up with any unusual money saving repair methods for fixing farm equpment? What maintenance shortcuts have you found? Have you had any equipment recalled by the factory? Name a particularly tough mechanical problem you've had with a piece of farm equipment and how you solved it.

These are a few of the questions we asked randomly selected FARM SHOW readers. If you have a repair tip, maintenance shortcut, or other mechanical experience you'd like to share, send details to: FARM SHOW, P.O. Box 1029, Lakeville, Minn. 55044 (ph 800 834-9665 or 612 469-5575).

Mark Newhall, Editor

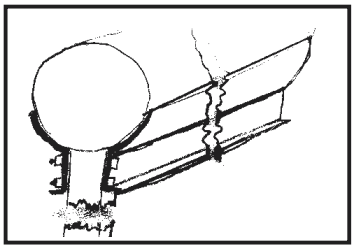
Levi Adams, Locke, N.Y.: "I've discovered that pto shafts run better if you do not grease them as much as the rest of the machine it's mounted on. Usually once for every three or four times is sufficient."

Dan Petersen, Curtice, Ohio: "I need help. The battery on my Massey Ferguson 180 tractor won't charge. Everything electrical has been replaced, from the alternator to the gauge. It still won't work.

"I use a $2 notebook to keep track of equipment maintenance. I divided it into sections for everything from the lawn mower up to the combine. I write down everything I do except for adding fuel. As we get older, a year or two can go by awful fast."

Stephen Painter, Lomax, Ill.: He made a chain oiler for his New Holland cornhead using a piece of 4-in. dia. pvc pipe. He capped each end and installed a 12-volt spray valve in one end. He fills the pipe with oil. A 12-volt switch in the cab controls the oiler.

Eugene Alt, Audubon, Iowa: "We replaced the steel tube on our Deere planter's cross auger with a piece of 6-in. dia. pvc pipe.



It works as well as the original and will never rust or corrode.

"We had a fabrication shop form a 'saddle' out of sheet metal for the pipe to fit into. The saddle bolts to the original Deere uprights. The pipe simply sits in the saddle and is strapped in place. Slots were cut out of the pvc for the fertilizer to drop out of. You have to be careful to get the dimensions right so the boxes fill properly. We were able to use all the spacers, end pieces and the hopper from the original auger.

"One handy idea we use in our shop is to wire a length of heavy extension cord directly to a wall outlet. We curl up the cord and hang it on the wall. That way it's always there when you need it and it can't come unplugged."

Paul Knauer, Elizabeth, Ill.: "After the 407 cu. in. engine blew up in our late 1960's IH 856 tractor and ruined the crankshaft, we decided that the cost of a new crankshaft and

a complete overhaul - at about $6,500 - was more than the tractor was worth. We located a junked-out 1976 IH 915 combine equipped with a good DT 414 turbocharged engine which we bought for $1,600. We then went to a salvage yard and purchased an oil pan, oil pump pickup tube, and a rear mounting plate designed for an IH 1066 tractor. We had to lengthen the 856's side rails by 1 1/2 in. and drop the rails about 1 in. in order to make room for the engine.

"We bought a new aftermarket flywheel and installed a 1066 clutch, which fit perfectly. We also had to reroute the lower radiator hose from the left side to the right side, using exhaust tubing fitted snug against the bottom rear of the radiator. And we had to move the exhaust hole in the hood back about 1 1/2 in. We picked up an air cleaner designed for an IH 966 tractor and fitted it under the hood. We added a band strap to the rear of the front hood in order to lengthen the hood so we could keep the radiator hole in the original spot.

"The repower job went so well that I doubt the average person would even notice.