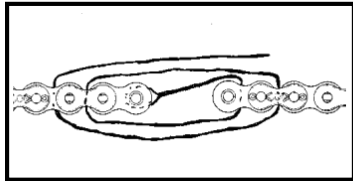


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other jobs, such as removing pulleys from engines.

"I've used this method dozens of times and it's never failed - so long as you get everything lined up straight and the bolt and nuts don't slip. Since I came up with the idea in the 1970's, some tool makers have come out with a similar product, but mine is definitely less expensive and probably just as effective."

Fred Galehouse, Doylestory, Ohio: "I came up with a handy way to put a connector link into roller chains. I tie a piece of



string or cord to one link and then thread it back through a link on the other side and then back through the other side. When you pull on the loose end, the links come together. This works better than any roller chain tool I've ever seen."

Russ Wahl, Cut Bank, Mont.: "We mounted a 450 gal. bulk tank for motor oil overhead in our shop. The tank is split 50-50 to hold two different weights of oil. Gives us a lot more capacity so we don't have to fill as often.

"I also made a rolling shop light by putting caster wheels on the bottom of a steel wheel rim and then welding a vertical pipe to the top of the wheel. I put a light at the top of the pipe and mounted an electrical outlet on the side of the pipe."

David Lee, Grand Junction, Mich.: "I had a blown gasket on the MCV control valve on the pto clutch pack on a 464 International tractor. I kept the problem from recurring by using a heavier 5/16-in. thick plate rather than the original 1/4-in. thick plate. This keeps the plate from flexing and blowing under pressure again. This fix would also work on 674, 684, 484, and 574 tractors, and probably other tractors in that series.

"I always keep mineral spirits in a backpack sprayer to use to wash off engines and other greasy equipment as needed. Here's another tip: In winter, I keep my pressure washer in a small cooler with a light bulb burning inside so it won't freeze."

Allen Derry, Zanesville, Ohio: "We repair our own baler belts by splicing short pieces of belting in place of the broken parts. We put fasteners on with a belt lacing tool we bought at a local hardware store. Thanks to this method, our baler belts generally last 4 times longer than they are supposed to."

Troy Sharpton, Auburn, Ga.: "We had

trouble with fans in chicken houses that weren't running right. I drilled holes in them to accept grease fittings and solved the problem. Grease can take care of a lot of problems. Adding extra fittings is often a cheap fix."

James White, Clark Fork, Idaho: "I have a 50-ton iron working machine in my shop that has virtually eliminated the purchase of acetylene gas. It's used almost every day to make neat, quick repairs or fabrication of parts. It'll punch holes up to 1 1/16-in. dia. in 3/4-in. thick bar and shear up to 3/4-in. thick bar 12-in. wide."

Chris Pluhar, Miles City, Mont.: "I had problems with the front wheel king pin bearings on my 1982 Deere 4450 tractor. The bearings have gone out six times in the past four years. Each time they go out they ruin the bearing race seat. I finally solved the problem by using JB Weld to put the race back in."

Barry Zellitti, Dao, Colo.: "I had trouble removing the battery from a 610 Bobcat loader. I solved the problem by notching the frame brace 1/2-in. deep along the length of the battery."

Lance Thiessen, Peabody, Kan.: "Our 1993 Gleaner R-62 combine tended to chop up high-moisture milo heads which flooded the sieves with trash. The problem is that the cylinder bars in the combine are too aggressive. We solved the problem by putting a rotor from a Gleaner N-6 into the combine. The N-6 rotor is less aggressive so it chops the trash less and doesn't flood the sieves. I understand this is now an option on newer machines."

Martin DeKlotz, Filer, Idaho: "On many tractors, you have to remove the muffler to take off the hood. The mufflers often rust to the manifold and must be destroyed to get them off. To prevent that problem, I apply a liberal amount of Permatex anti-sieze paste before installing the muffler. It comes off easy the next time.

"I also replace cracked or rusted metal hydraulic lines with hydraulic hose. It's cheaper and holds up better.

"I have a shop table made of 3/4-in. thick steel plate. I place a kerosene heater under the table. It warms the table and everything on it. The heat rises all around the table so you can work comfortably with bare hands even with air temperatures in the 40's."

J.D. Pearce, Conway, Ark.: "I have an 847 New Holland round baler. Holes started opening up in the floor of the bale chamber. I ordered some wear plates from New Holland for \$32 apiece. When they came in they wouldn't fit. I returned them and went to the scrapyards and bought a bunch of flat steel 7 1/2-in. wide. I replaced all 7 plates for \$9



Harvey Malon, Rapid City, S. Dak.: "Nuts, bolts, screws and small parts are always a problem to store. I've found that 1-gal. metal cans help solve the problem. Cut out one side - using a sharp chisel seems to work the best. Then build a simple wooden cupboard with shelves as deep as the cans

and as wide as you want. The vertical distance between cans should be about 1 1/2 times the depth of the cans so that you if you overload them you can still see what's in them. Be sure to put a back on the cupboard. Mark the cans with a marking pen."

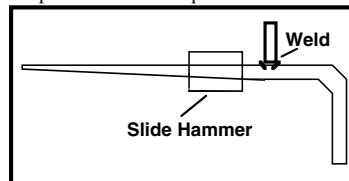
total - a savings of \$183."

Charles Weyrough, Alden, N.Y.: "I place a piece of door screening in front of the radiator on my tractor when mowing. It keeps seed and chaff from plugging it up while mowing. When the screen gets plugged, it's much easier to just shake it out and replace it than it is to return to the shop and blow out the radiator with compressed air."

Art Spearman, Hammond, La.: "I restore old John Deere tractors. The smaller model L and M models were equipped with cast iron hub caps which are usually broken because they bolt on from the back. Used caps sell for \$50 to \$100 a set, if you can find them. Instead of buying them, I buy a pair of 6-in. hub caps from a truck supply company for \$12. I cut the lips off and weld 3 1/2-in. bolts to the inside of the caps. After I paint them green you can't tell by looking that they're not cast iron."

Gary Peters, Woodsville, N.H.: "You can use a tractor to roll up fence wire. I welded a 5/8-in. nut onto the center of the axle on the rear wheel. Then I screw in a piece of threaded rod and slip on a reel from a wire feed welder. I snug it up right against the wheel. Then I drive to the fence and block up the wheel with a 4 by 4. Then I put the tractor in gear and roll up the wire. Works great."

Ron Melchert, Seymour, Wis.: "I modified a tool from Snap-On that's designed to pull cotter pins or seals. I added a slide hammer made out of round stock 4 to 5 in. long with a 1/2-in. bore. I slide it back against a 'stop' welded to the top of the tool. Makes



seal and pin removal much easier than any other tool I've used."

Dave Herbranson, Hawley, Minn.: "Our shop was converted from an old 2-story dairy barn. We removed the hay mow and added a home-built bi-fold door. We removed the stanchions and poured a new floor. I now use the old milk vacuum line to carry compressed air from a 60-gal. air compressor installed in the milk house. We use air tools a lot and the dairy barn made that easy."

Craig Froman, English, Ind.: "Here's a maintenance tip for Briggs & Stratton engines in mowers, tillers and other equipment. The bearing in the recoil starter often gets dry so the starter rope binds up and is difficult to use. Here's how to solve the problem. Drill a 1/4-in. hole in the center of the outer recoil cover. Then drill a 1/8-in. hole in the second cover inside the larger hole. Then oil the inside bearing through the holes. Don't put too much oil or it will gum up.

"When working on a car or truck, there's often no good place to lay small parts or wrenches. I solved the problem by standing a sturdy, folding ironing board next to the vehicle. Makes a lightweight work table. Doesn't scratch the paint. Make sure to get a sturdy board. The best thing is that it folds up out of the way when not in use.

"A used sickle section makes a good wedge to hold an ax head. Just sharpen both sides of the section and drive it in.

"To check for spark on a gas engine - large or small - I hook an electric fence tester to the spark plug wire and ground the other end to the engine. Then crank the starter. The tester I have tells me how strong the spark is."

Jim Bauer, Worden, Ill.: He uses an old squirrel cage fan from a furnace to efficiently heat his farm shop. He mounted the fan up near the ceiling and connected it to a duct that carries warm air from up by the ceiling down to the floor. He put a thermometer up near the ceiling so he can tell how warm it is up by the ceiling and whether or not it's worth turning on the fan. Works great to keep warm air circulating evenly throughout the shop, Bauer says.



Lloyd Meffert, Hettick, Ill.: Lloyd needed a way to square and align pieces of angle iron for welding and drilling so he made this handy clamp to fit into his vise. It consists of a flat metal plate with a short piece of 2-in. angle iron welded upright at one end and a large nut with

(Continued on next page)

Pto-Driven Generator Mounts On Tractor 3-Pt. With Welder

"It's a handy combination that's easy to move around," says Merle Black, Valencia, Pa., who bolted a 10,000-watt generator and a stick welder onto a steel platform that mounts on his tractor's 3-pt. hitch. The welder simply plugs into the generator.

He used steel pipe and angle iron to make a frame that fits the 3-pt. hitch arms. There are skids made from pipe under the platform that hold it above ground an inch or so.

Contact: FARM SHOW Followup,



Merle W. Black, 311 Leslie Rd., Valencia, Pa. 16059 (ph 724 898-2609).