

Money-Saving Repairs & Maintenance Shortcuts

psi or 4 gal. per minute at 3,000 psi. I made different dies for the press which allow me to weld the material together flat or square. Or, I can use a homemade, air-operated, 65-lb. hammer that cycles up and down up to three times per second. Using both the hydraulic press and the air hammer makes for a much better end product.

"I also built my own 2 by 72-in. belt grinder for shaping the knives and for other general shop work. It's operated by a 2 hp electric motor.

"I teach knife-making classes in my shop. You can see examples of my work at my Website:

www.Storchknives.com." **Air hammer**

Frankie Purser, 680 Purser Rd., Vanceboro, N.C. 28586 (ph 252 244-0750): "I installed a kit from Ford New Holland on my TW 15 tractor that lets me disconnect the remote hydraulic outlets without having to get off the tractor and use levers. The kit consists of a small Teflon plate with double-sided tape on it. Unfortunately, the first time I used a power washer to clean the tractor the Teflon plate blew off. Oil started leaking out of the outlets and they also became exposed to dust and moisture, etc. The only way to cover the remotes is to buy new lever-less remote outlet housings from the company that sell for \$250 to \$275 apiece.

"I solved the problem on my own using a 1 by 1 1/2-in. piece of aluminum flat bar that's 1/8 in. thick. I drilled a hole in the middle of the bar and threaded it to accept a 8/32-in. machine screw, which I inserted through the original housing that held the lever. I put high temperature silicone around the plate and a little on the threads of the machine screw to form a seal. I haven't had any problems since I installed it. I think this idea would work on all 10 and 30 series New Holland tractors equipped with remote lever systems."

Kenton Brewer, Herndon, Ky.: "In a recent issue of FARM SHOW a reader described how he breaks down tire beads. He lays the tire on a concrete floor and drives his tractor or pickup over the edge of the tire. However, I don't think this method is the safest way to break seals because if you drive up on the side of a tire, it can spring up and damage the fender and/or bumper or bend the wheel rim and even cause personal injury."

James Feldman, Northfield, Minn.: "I have a 12-ton wagon gear that carries a center dump, 375-bu. gravity box. I lost the dust cap on one wheel (a 20-in. truck tire and rim) and put off fixing it for some time. When I finally cleaned up the hub to put in new bearings and seals, I discovered the race had turned in the hub and wore a deep groove in it. I had been hearing about JB Weld so I decided to try it on the hub. I've used the gravity box to haul a lot of loads since then without any problems. JB Weld is a great product."

Murray Blackstone, Caribou, Maine: "I used pieces of scrap metal to make a 'spark guard' to contain the sparks on my 14-in.

chop saw. My shop has wooden walls and I was worried that sparks could cause a fire. The spark guard consists of a 14-in. sq. steel plate that angles toward the saw and mounts on a pair of angle irons. There's a handle on



top. Whenever I use the saw I simply set the spark guard in front of it.

"Another idea I had was to use a 6-in. dia., 2-ft. length of well casing pipe to make a prybar holder. It keeps my prybars organized and makes it easy to find the one I keep without having to dig around in toolbox drawers. I welded short lengths of small diameter pipe around the pipe and then welded one end of the pipe to a square steel plate. I keep large prybars in the big pipe and smaller prybars, as well as screwdrivers, in the shorter pipes. I keep it on my work bench."

Daniel Homes, 2/3 Station St East Kew, Melbourne, Victoria, Australia 3102 (ph 011 3 985-98120; E-mail: daniel.homes@wte.com.au): "I've invented a new tool for marking out contour lines on landscapes. Works great for laying out tracks, fences and tree belts along contour lines. My idea can be simply described as a scooter with a liquid level attached, which allows the operator to see that the scooter is level. An aerosol spray can is mounted on the front forks so the operator can easily mark the ground. The operator marks a series of points which will be on contour if the level is kept horizontal.

"I'm looking for a company to market the idea."

Eugene G. Johnson, Rapid River, Mich.: "I had a 10 cu. ft. lawn trailer equipped with 16.00 by 4.00 pneumatic tires that I pulled behind my 3-wheel ATV. However, the tires were undersized and the axle was so narrow that when the trailer was loaded it could easily tip over. I solved the problem by replacing the tires with 18 by 800 by 8 turf tires off a scrapped-out riding mower which I already had. I also lengthened the axle to match the ATV track and lowered the axle by welding in two new sockets so the new tires clear the box. I also milled a new keyway with a slight arc in each wheel bearing socket in order to provide a better surface for the bearing.

"Now the trailer is much more stable and I can use it to pull heavy loads with ease. Also, the wider tires pull much easier over soft ground."

John R. Spaetti, Evansville, Ind.: "To make sure that the hydraulic couplers on my tractor are hooked up correctly, I paint the remote hydraulic tips red for the first outlet; white for the second outlet; and blue for the third outlet. Now my co-workers always get

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Hand Clutch Makes Farmall M Easier To Use

Robert Dunton, Topeka, Ill., uses his vintage Farmall M for a lot of pto work. To keep from having to get on and off every time he needs to engage the pto, he installed a hand clutch that can be engaged from the ground. There's a pivoting lever at back and a bar

that runs up to the clutch pedal. The bar simply affixes it to bolts on both the lever and the pedal.

To use a hand clutch like this one, Dunton says you must be certain to have all guards in place on the pto.

New Manifolds For Old Engines

If you or your parts dealer are having trouble finding the right manifold for an older engine, try Vinson Tractor Co., Murray, Kentucky.

The company is one of the nation's largest replacement manifold makers. It manufactures manifolds for Massey Ferguson, John Deere, Ford, Allis Chalmers, International Harvester, Oliver, and many others. They make both farm and industrial equipment manifolds. All are based on OEM specs and about 75% of what they sell is considered original equipment.

Their biggest sellers are for Farmall M and

Allis Chalmers WD series engines. Much of what they make and sell is no longer available from the engine maker. While they don't have every out-of-stock manifold, they are continually adding to their line. They have dealers throughout the U.S. and prefer to sell through them when possible. Many of their dealers are independent repair shops. Contact the company for product availability or to find a dealer in your area.

Contact: FARM SHOW Followup, Stan or Steve Downs, Vinson Tractor Co., 1935 State Rt. 94 E., Murray, Ky. 42071 (ph 800 443-8099; fax 270 753-5380).

Professional Quality, DC-Powered Impact Wrench

"It provides the power and reliability of an air impact wrench, but with the convenience of DC power," says Lyndol Hollingsworth, inventor and manufacturer of what he calls "the most exciting new development in professional quality shop tools in years."

Hollingsworth was a Snap-On Tools dealer for 15 years and says the most common complaint he heard from farmers, ranchers, tire service people, and others was the hassle of hauling air compressors – along with generators or gas motors – to the field to power air-driven tools. FARM SHOW featured Hollingsworth's first prototype eight years ago (Vol. 17, No. 6). After years of research and development, he recently put the heavy-duty tools on the market.

The 1 1/2-in. drive impact wrench comes with a rechargeable battery pack that's permanently attached, and an automatic battery charger. Recharge time is two to four hours. It even has an onboard work light for faster, safer nighttime use. Maximum torque of the heavy-duty tool is 45 ft.-lbs. The unit is compact enough to fit inside a 5-gal. canvas bucket or behind the seat of a pickup.

"Fully charged, our DC impact wrench will run for many hours of constant use before it needs recharging," says Hollingsworth. "It can do a full day's work for such jobs as



changing tires, drilling holes in wooden fence posts, or putting lag screws in a deck. It sells for \$1,299 plus S&H which may seem high at first. However, when you consider the cost of buying and maintaining a compressor, along with generators or gas motors as well as cords and a separate impact wrench, it compares favorably. Also, it doesn't require any maintenance and you don't have to haul anything else with you."

The wrench weighs 8 1/2 lbs. while the battery weighs 21 lbs. Both the wrench and battery come with grab handles for easy handling and portability.

Contact: FARM SHOW Followup, DC Power Equipment, LLC, 3007 Longhorn Blvd., Suite 113, Austin, Texas 78758 (ph 888 588-3545 or 512 835-9511; fax 512 836-9025; Website: www.dcimpact.com).