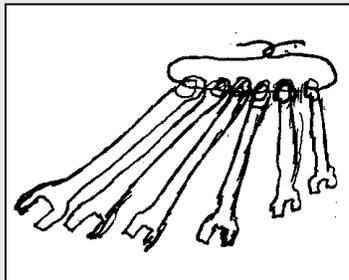


Money-Saving Repairs & Maintenance Shortcuts

tool steel cutters that are adjusted in and out with an allen wrench. It operates at slow speed – so you can use a less powerful drill – and costs about the same as a large twist bit but will do the job of multiple bits. A 3/4 hp. drill will drill a 2-in. hole in hard steel. In many cases, the drill eliminates a trip to a machine shop. Prices range from \$40 for a Super Drill with a single cutter up to \$180 for a boxed set with accessories. It has been distributed in the U.S. for years by Peter Schofield, Super Drill Sales West, 2240 Meadow Creek Rd., Lincoln, Calif. 95648 (ph 916 645-3198; Web site: www.superdrill.com). In Canada, contact: Super Drill Sales, RR3, Waterford, Ontario NOE 1Y0 Canada (ph 519 426-7886).

Myron Hebbert, Chadron, Neb.: “A simple and practical way to prevent leaks along tire beads on tubeless tires is to seal the beads with a bit of castor oil around the rim. You can also prevent slip and squeal on belts by adding a small amount of castor oil.”

Bill Reeks, Cromwell, Ky.: “This is a simple idea but it helps me keep my tools in order. Most box end wrenches end up in a



pile because the holders that come with them don't work well. I just thread them onto a 12-in. piece of #12 copper wire. The wire is soft enough to bend easily, yet strong enough to hold its shape and hook together.

“Another idea that has worked out well for me is installing a second battery in one of my tractors that has always been difficult to start. I just hooked the second battery up in parallel with the original battery. The added cranking power has solved my starting problems.”

Bill Hester, Waukee, Iowa: “When the heater on my Deutz Allis 6260 tractor went out, I learned that it would cost a lot to replace. The tractor is powered by an air-cooled engine and doesn't have a radiator. The factory-built heater uses fuel oil. To solve the problem, I bought an old electric heater for \$110 and mounted it on the floor of the cab so that it blows across my feet. It keeps the cab nice and warm. I used a ‘back seat heater’ that's sometimes used to heat vans and old pickups. I wired the heater directly to the tractor battery.”

Ron Beaty, 13921 W. St. Rd. 38, Hagerstown, Ind. 47346 (ph 765 489-6321): “We make an all-aluminum radiator that's specifically designed for Farmall M



tractors. It weighs about 45 lbs. less than the tractor's original radiator, which makes a big difference to anyone who participates in antique tractor pulls. The original radiator core weighs almost 60 lbs. with brackets, whereas our aluminum radiator weighs only 14.7 lbs. The reduced weight helps get the tractor down to the lowest weight class allowed, which is 4,500 lbs.

“We use a process called controlled atmosphere brazing to make the radiator. It sells for \$450 plus S&H. Another advantage is that it won't rust out. Also, aluminum is a better heat reducer. We also plan to soon offer aluminum radiators designed for Oliver 88 tractors and also Moline tractors.”

(Continued on next page)



Converted sprayer still has the original spray tank. Harris mounted a 6-ft. long wooden storage compartment on one side of it and a smaller compartment behind it.

Pull-Type Crop Sprayer Converted To “Service Station On Wheels”

Bill Harris, Pennville, Ind., converted a pull-type crop sprayer into a “service station on wheels” equipped with a 375-gal. diesel fuel tank, an electric fuel transfer pump with 25 ft. of hose, and storage for oil, funnels, grease guns, and tools.

“It has a lot more fuel storage capacity than my pickup for refueling in the field. That means I don't have to refill as often,” says Harris.

He had not used the single axle sprayer for the past couple years because it was too small for his needs. He cut away the boom and shortened up the tongue. He kept the metal spray tank. He added an expanded metal platform and a step on one side of the tank. On the other side he mounted a 6-ft. long, 3-ft. high wooden storage compartment with shelves inside it. He also made a smaller compartment to go behind the tank. The side-mounted box has enough room for four 5-gal. pails of oil as well as fuel filters, various funnels, a grease gun, towels, and a towel holder. The box on back is divided by a shelf, with a battery on top and the fuel pump on bottom. Both boxes have hinged lids that can be lifted up out of the way.

“It lets me keep my tractors going all day without having to drive home to refill the 110-gal. tank on my pickup,” says Harris. “I



Both compartments have hinged lids that can be lifted up out of the way.

mounted tail lights on the rig as well as outside-facing lights on top of the box on back so I can refuel after dark. I also mounted lights inside both storage compartments. The lights are hooked up to the same battery that operates the fuel transfer pump.”

Harris says the design works so well he plans to build units for sale and will display them at farm shows later this year. “I plan to build tandem axle models that will allow greater capacity. I'll also build metal boxes instead of wooden ones for more durability,” he notes.

Contact: FARM SHOW Followup, Bill Harris, Jr., 6889 W. 400 N., Pennville, Ind. 47369 (ph 219 731-2793).

Heavy-Duty Hydraulic Shear Doubles As Bender

“Our heavy-duty, open-jaw hydraulic shear doubles as a bender. It's so handy I don't think we could farm without it,” say David and Martin Ray of Winfield, Kan.

The machine's 21-in. long shear consists of two main parts that pivot on a 3-in. dia. steel shaft. The top part is raised or lowered by a pair of large diameter hydraulic cylinders. The cylinders are operated by a hydraulic pump powered by an electric motor. Stepping on a foot pedal extends or retracts the cylinders.

Ray had the machine's arms and jaws custom made. For bending work, the bottom half of the machine is equipped with two parallel bars and an “elephant's foot” that looks like a shank on a tillage implement. Extending the cylinders forces the “foot” between the steel bars to bend the object. For cutting work, the top half of the machine is equipped with a shear that slips down through a narrow slot in a heavy-duty steel plate.

“A new machine of comparable capacity would sell for \$5,000 to \$6,000,” says David who gives credit to the Lord for their abilities.

Contact: FARM SHOW Followup, David



Top part of Ray's shear is raised or lowered by a pair of large diameter hydraulic cylinders.

Ray, RR 2, Box 236A, Winfield, Kan. 67156 (ph 316 221-3541).

“Bear Saw” Cuts On The Pull Stroke

It's easier to pull than to push, says the manufacturer of a new line of hand saws that cut on the pull stroke.

Bear Saws can be used on anything from logs to fine finished wood. They have a super-thin blade with razor-sharp, specially ground, triple-edged teeth that leave a smooth finished edge. Cutting on the pull stroke prevents blade buckling and binding, which allows the blade to be made thinner. According to the company, the saw removes less material on the pull stroke than conventional saws, allowing swifter, more precise cutting. Comes in four blade styles to match any job, from a 13-in. coarse/medium for rough cuts to an 8-in. extra-fine blade for finish woodworking. In between are a 10 1/2-in., medium-fine blade and a 10-in., double edge style. All four blades are easily interchangeable on any of the handles and are firmly secured with a locking knob.

The saw can be quickly disassembled for toolbox storage. A blade guard is available to protect the super-sharp teeth.

The saws sell for less than \$10 apiece depending on the model. Contact the



“Bear Saw” comes in four blade styles for doing everything from rough cuts to finish woodworking.

company for your nearest dealer.

Contact: FARM SHOW Followup, Vaughan & Bushnell Mfg. Co., Box 390, Hebron, Ill. 60034 (ph 800 435-6000; Website: www.vaughanmfg.com).