



**Harvey K. Malon, Rapid City, S. Dak.:** "I made a cheap rack for scrap iron by stacking standard wood pallets on top of each other. You can get pallets free just about anywhere."

"This rack gets your scrap iron up off the ground and makes it easy to sort through. I put all kinds of miscellaneous steel in there. If you have long pieces of tubing or scrap, you could stack two pallets end to end. It's a good idea to lay the pallets on railroad ties or treated lumber because the pallets will rot if placed directly on the ground."

**Robert Preuss, Strawberry Point, Iowa:** "I use J.B. Weld to make all kinds of repairs - manifolds, gas tanks and even cracks in the tin on my combine. Repairs I've made have lasted for years."

**John Whipple, Shenandoah, Iowa:** "The best thing I've done in my shop to make it more efficient is to put tools and tool chests on wheels. That lets me take the tools to the job and not have to walk back and forth to the bench all the time for the right tool."

**John M. Kiminski, North Brookfield, Mass.:** "The distributor on our Deere B tractor was all worn out. To avoid a very expensive repair, we turned the shaft down in a lathe, bought some new bushings and pressed them on, and then bored them to size on the lathe. It worked well and the tractor runs great now."

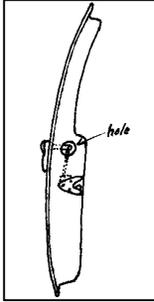
"The best feature we built into our shop is a repair pit. It's a great time and back saver when changing oil, tires, and working on clutches, transmissions, etc."

**August E. Andersen, Long Eddy, N.Y.:** "One trick I've learned that makes diesel-powered tractors start easier in cold weather is to equip them with high-speed starters. My Deere 4020 started hard so I mounted a high-speed starter on it, which solved the problem. I bought the starter at my local Deere dealer. Costs a little more than a regular starter but it works."

**Dave Whaley, Wheatley, Ontario:** "I use our old 200-gal. sprayer to wash out our larger Hardi sprayer. I bought a car wash wand with soap dispenser and 50 ft. of garden hose. Now I don't have to bring the Hardi sprayer anywhere near the well or get yelled at by my wife for killing the grass."

**Richard G. McDanolds, North Haverhill, N.H.:** "We use a torch to remove bearings on the feed rolls on our Deere 35 chopper. Otherwise they're impossible to remove."

**Jack R. Kiser, Fremont, Ohio:** "I had to replace the outside door handle on my 1989 Chevrolet pickup but it was difficult to get to. I solved the problem by cutting a 1 1/4-in. dia. hole in the edge of the door with a hole saw. That allowed me to connect the latch rod to the door handle. I filled the hole with a metal snap-in plug."



**Joseph W. Claus, Pittsburgh, Penn.:** "One shop tip that saves me aggravation is to paint all outside hand tools bright yellow. Hammers, wrecking bars, splitting wedges, pry bars, etc. Makes them easy to find and identify, especially if you work with a group of people."

"My best tip for making engines last is to change the motor oil often. I've been changing oil and filters every 2,000 miles for 40 years. It never sludges up in the valve area and oil sump. My engines are always clean inside. I also recommend using the same brand of oil all the time. Paraffin and asphalt-based oils should not be mixed."

**Norman Foellmi, Sparta, Wis.:** "While switching engines in a piece of equipment, I had to take a pilot bearing out of a crank shaft. I just filled the opening with grease and then put a dowel in that fit the hole and hit it with a hammer. The bearing popped right out."

**Roland Jackson, Amarillo, Texas:** "I manufacture a power steering kit to fit NAA and 8N Ford tractors. I've had many comments on how clean the installation is. One of my goals, before I started working on this project, was to make an add-on unit that worked and looked exactly like the original equipment. We accomplished that goal in that the steering unit is quick and turns the front wheels from extreme right to extreme left with two revolutions of the steering wheel - just like the original steering. We also wanted to make the unit strong so once it was mounted on the tractor, it would last for years."

"There's a 1 1/2-in. dia. cylinder on each side of the tractor. Both cylinders work together to give you a smooth and trouble-free turn every time regardless of the load on the tractor's front wheels. The cylinders are attached to your tractor by heavy drag link brackets which require no drilling or welding."

"Anyone interested can get more details at our web site: [www.jacksonpower](http://www.jacksonpower)



## Money-Saving Repairs & Maintenance Shortcuts

*Have you come up with any unusual money-saving repair methods for fixing farm equipment? 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 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 or e-mail us at: [Editor@farmshow.com](mailto:Editor@farmshow.com).*

*Mark Newhall, Editor*

steering.com. I sell the system for around \$1,600 using a power steering pump and \$1,400 if the existing lower pump is used to power the steering control unit."

Contact: FARM SHOW Followup, Roland Jackson, 2800 Estates, Amarillo, Texas 79124 (ph 806 463-2141; E-mail: [ronj@arn.net](mailto:ronj@arn.net))

**David White, Farmersville, Ill.:** He bought three material racks at a state salvage sale and then mounted them on large wood



**J. Harris, Prentice, Ill.:** Old planter firming wheels can be used to make cheap salt boxes. The spoked wheel used by Harris keeps the salt block off the ground yet lets rain water go through.

**Mark Himes, Beecher City, Ill.:** Himes made a high capacity hose reel by welding



pallets, which he built. The pallets let him carry the racks around with his forklift, even when loaded. Lets him carry them into the shop as needed when working on a project."

**Roger & Bruce Elliott, Montrose, Ill.:** They had a close call when a local man was killed by a car slipping off a jack. It prompted them to go looking for a safer lift for their



four U-shaped rods to an old spoked implement wheel. The hose reel mounts on a stand made from an auto wheel with an upright pipe that bolts to the hub on the spoked hose reel wheel.



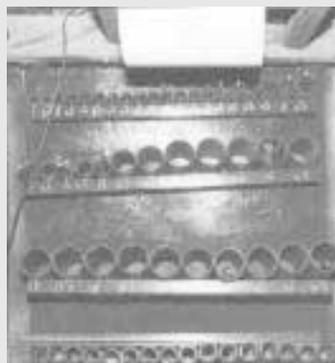
**Claire Wilson, Winchester, Ill.:** With more and more factories upgrading to high-

### Drill Bit Rack

Keeping drill bits organized and easy to find is a cinch with this drill bit rack we recently spotted in the British farm magazine Practical Farm Ideas.

The idea is to weld short lengths of different-size steel pipe to pieces of light angle iron and then fasten the assemblies to the wall. Each piece of pipe is marked clearly for a size of bit. Bits are inserted with the cutting tip out to keep them from dulling. The pieces of pipe are big enough to handle several bits.

The bit holders are welded on at a slight angle so the bit won't fall out. (Check-out Practical Farm Ideas at [www.farmideas.co.uk](http://www.farmideas.co.uk))



shop. When a nearby car dealership went out of business, they bought one of their hydraulic lifts and installed it in their farm shop. The lift is self-contained, with an electric-powered hydraulic pump, and doesn't require a pit. It bolts directly to the flat concrete floor. So far, no problems and they can use it on all types of vehicles and equipment.