

**Ken Scharabok, Waverly, Tenn.:** "The jaws on pipe clamps are often too short to get a proper grip. I make jaw extensions on my clamps out of 1/4-in. thick steel plate, 1 1/2 in. wide. I drill a hole through them for the pipe and then arc weld them onto the original jaws. They work fine."



"I also added an extra handle to the top of an adjustable pipe wrench. I just welded it in place. It's handy for getting a good grip for turning."

**Lloyd Settle, Ina, Ill.:** "A fellow in your last issue wrote about how his Deere 4850 tractor was overheating. He'd look at the temperature gauge and it was always running too hot."

"I had the same problem. After replacing the thermostat, which did not help, I checked the engine with an infrared temperature sensor and found out that it wasn't really running hot. It was just fine. The problem was a bad temperature sending unit. I changed it out and had no more problems."

**R. Myers, Tonganoxie, Kan.:** "You can use brake fluid to free up frozen motors. Just pour some in each cylinder and let it sit for a day."

**Murray McMillan, McMillan Farms, Box 57, Arcola, Sask. S0C 0G0 Canada (ph 306 455-2543; email: mcmcm@sasktel.net):** "I came up with a way to control the hydraulics on my Deere 4-WD tractor. It's a must-have product for anyone running an air seeder so you can adjust the fan



speed from inside the cab. The add-on hydraulic flow control is easy to install. It consists of a lever that attaches to the hydraulic outlet and a control cable that runs up to the cab.

"I'm selling the flow control for \$89.95 (Can.) plus tax and shipping."

**Bayard G. Young, Elkwood, Va.:** "Here's an easy way to change your own oil and filters and do other under-body work. I wish I



had built this car rack years ago.

"The ramp is 15 ft. long and made out of treated lumber, with 2 by 8's for the main ramp boards and 4 by 4's for the uprights. The front post is 22 in. high and I put a stop block at the front of each ramp. The uprights on each side are staggered to balance the load and there are cross boards for strength. I used steel cable to brace the center of the ramp, running between posts on either side."

"When the ramp is not in use, I can just lift it up and store it on its side."

**Albert L. Uri, 4117 E. Briges Road, Elk, Wash. 99009:** "I discovered an easy and inexpensive way to test radiators for leaks. I put a shop vac on the blow cycle and blow into the radiator to find out where the leaks are. I cleaned them with brake cleaner fluid."



Bolted onto baler endgate, reservoir automatically applies a steady stream of oil to chains every time endgate is raised.

## Chain Oiler For Round Balers

"I came up with an easy and inexpensive way to keep chains from wearing out on my 1981 New Holland 847 round baler. I bolted an oil reservoir onto the endgate that automatically applies a steady stream of oil to chains every time I raise the endgate," says Bayard Young, Elkwood, Va.

Young enclosed the ends of an 8-in. dia. steel tube with steel plates and then bolted the plates to the top of the endgate. He attached valves fitted with rubber hose to both ends of a 1-in. dia. pipe mounted parallel to the oil reservoir and about 1 ft. ahead of it. A vertical breather pipe mounts above each valve.

"It cost only about \$100 to put together," says Young. "My neighbor Richard Dwyer did the welding work on the tube. It took a little experimenting to get everything to go just right. The breather pipes have to be long enough to keep oil from spilling out of them whenever the tailgate is raised. I put the pipe in the middle of the tube, which can be a problem on hilly ground because all the oil flows to one end of the tube. It would probably work better if there were two pipes coming out of the tube, one at each end."

Contact: FARM SHOW Followup, Bayard Young, 18172 Youngs Lane, Elkwood, Va. 22718 (ph 540 399-1405).



## 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.*

**Mark Newhall, Editor**

If they're small, I use a screwdriver to make the holes bigger. Then I use silicone to patch them up and suck with the vacuum on the radiator to pull the silicone into the hole to form a tight seal. I made repairs this way ten years ago and the radiator is still holding tight.

"The same idea can be used for a cracked engine block. When you put heat to a cracked block and try to weld it, the crack will only get longer. But if you clean the crack off and buff or grind it a bit and then use a shop vac to suck caulking in, the caulking will expand and contract with the cast iron and the block will never leak again."

"A seam leak is harder to find because they're usually very fine. I use Varivain - a plastic coating designed for furniture - to plug seams. Works great."

**Henry M. Zubrzycki, Jasper, N.Y.:** Henry likes the Facet electronic fuel pump he installed on his 1962 Deere dozer and also on his 1954 Farmall SuperA (Purolator Facet, Inc., Greensboro, N.C. ph 800 852-4449 or 336 668-4444; www.purolator-facet.com).



"Both tractors originally had no fuel pumps. They were gravity-fed. As a result, if I drove them uphill without a full tank of gas and stalled, I could end up going backward. The tractors start much better now."

"The fuel pump operates on 12 volts, which worked out well since I had already converted both tractors to run on 12 volts. The pump comes with all the necessary hose connections as well as mounting hardware. It's small enough that you can mount it almost anywhere."

"I got the idea after my neighbor installed one on his 1936 General Motors dozer tractor. It had a mechanical fuel pump that was worn out, and he couldn't find a replacement. I bought both pumps at a NAPA store and paid \$39 apiece for them."

**Arnold Heeren, German Valley, Ill.:** "I read about the money C.F. Marley spent at a Case-IH dealer for two hub bolts for an old

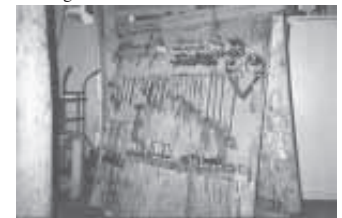
IH 706 tractor (Vol. 28, No. 5). I had the same problem with my IH 756 tractor and I found what I needed for just a few dollars at the Fastenal Co. (1261 Grant St., Freeport, Ill. 61032 ph 507 454-5374; www.fastenal.com).

The company's stores stock about 356,000 products, including all kinds of threaded fasteners such as screws, nuts and bolts.

**Bill Wilson, 44 Gable Road, Thompson Falls, Montana 59873 ph 406 827-3006:** "I mounted a pair of standard overhead chain hoists perpendicular to each other on the ceiling of my shop. Both hoists slide back and



forth on separate trolleys. I've used them to put a new clutch in my tractor and to lift an engine out of a pickup. The perpendicular angle of the hoists really comes in handy. For example, when lifting an engine out of a pickup I can use one hoist to hold the front part of the engine and the other hoist to hold the back part. Once the engine has been lifted out of the pickup, I can use the other hoist to move it in the other direction out of the way. If I want I can move it all the way over to my welding table.



"I love doing mechanical work but hate looking for shop tools, so I used a 4 by 8-ft. sheet of plywood to come up with my own two-sided toolboard. It mounts on an angle iron frame and rides on rollers. It lets me roll my tools right out to whatever I'm working on."

"It's really handy. As soon as I'm done using a wrench I put it right back on the toolboard instead of laying it down somewhere. Whenever I need to use that size