

Tecumseh engine after years of hard-start problems. I have also been tempted to make the same 'adjustment' to one of these engines. However, I may have a solution for other sufferers. I discovered by accident that if I leave the fuel cap loose after filling and then pump the primer bulb on the carburetor, the engine will start more easily, usually on the first or second pull.

"I was telling a co-worker about this problem and he told me about a guy he knows who fixes Tecumseh engines by cutting a small notch on one side of the choke plate with a round file. He says the choke on these engines is too restrictive so cutting the notch opens it up some."



Larry Klavemann, Wilton, Iowa: "I needed a cheater bar to put more leverage on my big wrenches. So I cut and welded two small pieces of angle onto a length of square tubing so I can easily slip a large wrench into it. Easy to use and I get a lot more leverage."

Coburn Lowman, Dalton, Ga.: "Since reading in FARM SHOW about using a 50-50 mix of acetone and automatic transmission fluid as a penetrating oil, I've used it for all kinds of jobs. It's amazing. I mixed some up and gave it to a friend who runs a small engine repair business. He had sworn by PB Blaster for years but quickly became a believer in this low-cost mixture. The only trouble I've had is finding a good oil can to hold it. I tried a regular pump oil can but the acetone quickly evaporated, leaving just the ATF. So I put some in a small shampoo bottle with a small flip top. It worked great for about 5 hrs. until the acetone turned the plastic bottle into goo. Plastic pop bottles work longer but just pouring the liquid out of it can be messy and wasteful. Has anyone found a better solution?"

Kent MacDougal, Yorges Island, S.C.: "Instead of jamming a nail or screw into the tip of a caulking or silicone tube for storage, which really doesn't work that well, screw an electrical wire nut onto the tip. It keeps the contents much fresher."

"To clear spider webs out of the eaves in your shop or elsewhere, chuck a straight wooden dowel into your electric drill. Just pull the trigger and wave it through the webs. Works so well you'll go looking for more spider webs."

Louis J. Gautron, Rathwell, Manitoba: "Preparing tractor batteries for winter is a problem in the north country. I used to bring my equipment inside for winter but it didn't seem to extend battery life. A friend finally gave me this advice: Make sure the batteries are fully charged in the fall on equipment that you're not going to use during the winter. Then disconnect the

ground wire. Leave the battery in place all winter. First thing in the spring, charge the battery before starting it up. It'll be ready to go and the battery will get maximum life. This method really works."



John P. Vandenbosch, Seymour, Wis.: "I built a very heavy-duty workbench using the frame of an industrial air conditioner that's made with 4-in. sq. tubing with 1/4-in. sidewall. The top is a piece of 3/4-in. thick 60 by 120-in. plate steel. It's fitted with 2 castor wheels and two standard wheels and has two stabilizer legs, a tongue for moving, and 4 steel drawers made from scrap sheet metal. It weighs a little over a ton and is practically indestructible."

Steve Brubaker, steveandemmy81@gmail.com: "Sometimes the simplest things make your life easier. That's what makes FARM SHOW interesting to me."



"Here's an idea that really helped me out in the shop and it didn't cost a thing except for a couple 2 by 4's. I bought a Ryobi table saw that came with a flimsy stand that ended up bending soon after I began to use it. I put up with it for a few years until I spotted a used grill at the dump and decided it would make a great saw stand replacement. I just took off the grill parts, added two 2 by 4's, and screwed the base of the table saw onto the 2 by 4's after removing the old table saw legs. Now the saw is truly portable and a lot sturdier."



Ralph Curtiss, West Grove, Penn.: His tool wagon makes maintenance and repair easy. Instead of running back and forth for tools, he pulls his tools with him. "I built a box with tool bins and shelf space for multiple tool kits, as well as lubricants and a first aid kit. It is designed to sit on the running gear of a small 4-wheel wagon. I can pull it around to whatever piece of equipment I'm working on. The running gear is the size of a child's wagon, but heavier built with wider wheels. I picked it up at Northern Tool (www.northerntool.com). There are 10 bins on the lower level and shelves on 2 higher levels. The entire box can be lifted off the running gear. It can also be slid into the back of a pickup for use in the field."

Where To Buy Industrial Grade Bits

Why settle for cheap, poor quality drill bits that don't last when you can get professional metalworking bits that you won't find in any big box store? Silas Zimmerman, Zimmerman Drill Bit Sales, has been supplying machine shops, fabricators and other metalworking professionals with drill bits for the past 4 years.

"We try to sell only high-quality, preferably U.S.-made, products that we know will meet or exceed customers' expectations," says Zimmerman. "We have thousands of drill bits out there in the years we've been in business and have had no negative feedback."

As a wholesale distributor, Zimmerman can't sell retail, but his commercial customers often do. If FARM SHOW readers call or write him, he will provide the name of his nearest customer prepared to do resale of his premium bits.

Zimmerman says one reason he puts quality first is that he is an end user. "I like to sell things that I can feel good about selling," he says.

He says that 99.9 percent of the drill bits he sells are from one manufacturer, Norseman/CTD (Consolidated Toledo Drill).

"I wouldn't use any other," says Zimmerman. "I've tested them in stainless steel, spring steel, all different materials, and they passed the tests well. One customer said that they drill through stainless steel like it was cheese."

His most popular seller is the AQF-29P, a 29-piece drill bit set that comes in a heavy-duty plastic carrier with a clip for easy storage. A rubber washer keeps water out, and the top screws on for security. The bits themselves feature sizes from 1/16-in. to 1 1/2-in. by 1/64-in. Sizes 3/16-in. and larger feature 3 flats on the shank for reduced slippage, increased productivity and bit life.

Another example is the Hole Hog set of core drills. The bits are designed specifically for situations where holes need to be reamed



Silas Zimmerman sells high quality professional metalworking drill bits, almost all of them from one manufacturer.

out. Hole Hog bits are accompanied by the appropriate pilot bit. Used correctly, they can enlarge a hole 60 percent.

Hole Hog bits are also helpful in 'large diameter' holes, where the diameter of the hole is significantly greater than the thickness of the material. Standard bits can catch in the hole, resulting in broken, chipped or bent drills.

Although drill bits were his first product, he has expanded into welding supplies and other lines, including Honeywell hearing and safety products. Today he carries thousands of products from a broad range of manufacturers and a few select distributors. Like his drill bits, Zimmerman emphasizes products made in the U.S. for quality and performance.

"We are very competitive and can save our customers quite a bit of money on most products," says Zimmerman. "We are the lowest price reseller; however, retail prices are up to our customers."

Contact: FARM SHOW Followup, Zimmerman Drill Bit Sales, 1468 Vaughns Grove-Fairview Rd., Pembroke, Ky. 42266 (ph 270 886-5100).



StudPop comes with a magnet and a colorful "popper". When the popper stands up straight, you know the magnet has detected a screw or nail in the stud.

New-Style Stud Detector Easy To Use

The StudPop® has a colorful "popper" that visibly and audibly tells you when the magnet senses a metal fastener up to 1/2 in. deep.

The \$9.95 device is the brainchild of John Blake, an engineer-turned-landlord/handyman, who was frustrated by stud finders on the market.

"I wanted something that would be super-easy to use on any kind of wall," he explains. His StudPop works on sheetrock, tile, lath and plaster.

"Its shape resembles a speaker that radiates sound. On sheetrock it makes a loud thud as soon as it finds a nail or screw," he says. "When you see the popper stand up straight, that means that the magnet has detected a screw or nail that holds the wall board to the



stud."

Functional, yet fun in an assortment of bright colors, the StudPop has attracted media attention and will be featured on the DIY television network this fall.

Made with ABS polymers, they're virtually unbreakable. They attach easily to your toolbox - or refrigerator. Or better yet, Blake suggests, just stick it on a wall and let your guests guess what it is.

Currently sold on Amazon, in 2015 the StudPop will be available in hardware stores. Blake welcomes inquiries from distributors.

Contact: FARM SHOW Followup, StudPop, John Blake, 24 Heath Rd., Kennebunk, Maine 04043 (ph 207 604-6657; www.StudPop.com).