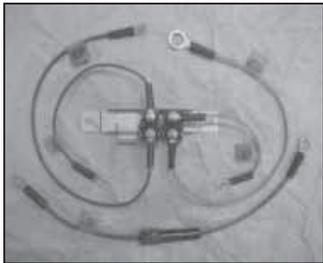


## Money-Saving Repairs & Maintenance Shortcuts

**Agri-Services, 13899 North Road, Alden, N.Y. 14004 (ph 716 937-6618; www.wiringharnesses.com):** Agri-Services has developed a new circuit protection kit for two-cylinder diesel tractors, in order to pre-



vent damage to the wiring harness and electrical components in case of a short circuit. A short in the 24-volt system, or either 12-volt system, can destroy the wiring harness before one can react to the smoke and disconnect the batteries.

Some of the possible short circuit scenarios include: allowing a tool to come in contact with exposed terminals, starter solenoid malfunction, a wire rubbing through the insulation, rodent damage to the wiring harness, wrong polarity of the generator, or voltage regulator malfunction. Deere recognized the need to offer a similar kit for the 24-volt New Generation diesels to prevent tractor fires and harness damage, but there have been no kits for two cylinder applications until now.

The kit protects both 12-volt legs of the 24-volt system and also the 12-volt ground circuit in the battery box. The kit includes two Type II circuit breakers (which will not reset until the power is shut off), an in-line fuse lead, mounting bracket, leads and instructions.

**Dave Nolan, ET&F Fastening Systems, 29019 Solon Road, Solon, Ohio 44139 (ph 800 248-2376 or 440 248-8655; www.etf-fastening.com):** "Our heavy duty pneumatic nail gun works

great for fastening steel or wood to concrete. For example, attaching plywood, OSB, or other wood underlayment to concrete. It's ergonomically designed for greater operator



comfort and easier handling. The magazine and air hose connection are on the same side, allowing the unit to fit easily into tight corners. Power is supplied by a 1 1/2 hp electric compressor. It sells for about \$1,200."



**Rex Gogerty, Hubbard, Iowa:** "An unused old refrigerator provides dust-proof, moisture-proof storage for planter units, monitors, etc. I installed a latch on the door

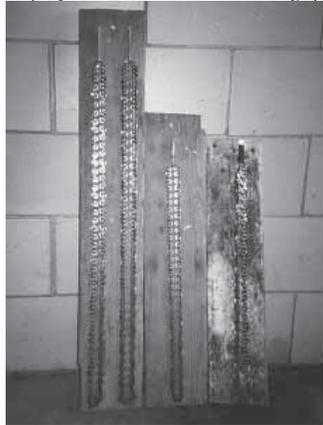
so that if a kid gets inside, all it takes is a good nudge and the door will bust right open."



**Donald Montie, Northport, Mich.:** "Lay a 2 1/2-gal. empty water jug on its side, cut the top out, and use it as a storage drawer. You now have a ready-made drawer pull."

**Walter Fuoss, Oakley, Mich.:** "To make it easier to start my wood splitter in cold weather, I put a styrofoam box around the engine and hydraulic pump. Then I placed a Halogen light under the box for an hour or so to warm up everything.

"This photo shows how I use boards to keep my chain saw chains from knotting up.



I drill a screw into the top of the board and place a spring on it, and also drill a screw into the bottom. Then I wrap one end of the chain around the bottom screw and connect the other end to the spring. Tension from the spring keeps the chain tight at all times. It's a quick and easy way to keep chains straight so they stay clean and are always ready to go."

**Jack W. Kreeger, 7529 Bedford Ave., Omaha, Neb. 68134; ph 402 571-2824:**

"I've put together a shop manual that covers the L, LA, LI tractors and LU engines produced by John Deere from 1937 to 1945. These tractors were equipped with either Hercules or Deere engines and had from 10 to 13 hp. The 165-page manual contains specs, repair ideas, service hints, information on magnetos and carburetors, etc. Deere never produced a shop manual for these tractors. Sells for \$25 including S&H; \$27 in Canada."

**Ed Doucette, Fort Ripley, Minn.:** He wired a line-voltage thermostat with male and female cord ends and uses it to control the temperature on electric space heaters. He says it's easy to do and works great. You can also use the idea to add a thermostat to electric livestock tanks, birdbaths or pet water bowl heaters. Let the thermostat turn them on and off when the temperature dips or rises. Any electric heating device or fan without a thermostat of its own can be adapted quickly.



Casey Grant came up with the idea of using a deep freezer as the cabinet for his sandblaster. Blaster at right hooks to air compressor.

### Deep Freezer Sand Blasting Cabinet

Casey Grant needed a sandblasting cabinet but didn't want to spend \$1,000 or more for one. So he came up with the idea of using a deep freezer as the cabinet, which kept the cost down to \$150.

The project worked so well the Alliance, Ohio, man is putting two freezers together so he can sandblast big parts off an old 1977 Ford pickup he's restoring.

A local dealer gave him a broken deep freezer. He set it on a plywood platform with castor wheels so he can roll it around.

He cut a 12 by 24 in. opening in the center of the door and inserted plate glass on the outside and duct taped a pane of glass on the inside. "When the glass gets scratched up, it's easy to replace," he says.

He cut a pair of 6-in. dia. arm holes spaced 15 in. apart at the front of the freezer and fit two coffee cans extended thru and extending extra 1 1/2 in. inside. He bent the outside edges of the cans flat and riveted them to the freezer.

Grant took the pant legs from some old overalls, doubled them up and sewed them to leather welding gloves. The pant legs fit over the inside edges of the coffee cans. Flat bands of aluminum bolted together hold them in place. "My hands don't sweat at all because of the leather," he says.

He also cut a 4-in. hole to insert the suction pipe coming from a Craftsman dust collector he bought used.

An air compressor attached to his old sandblaster pushes air through the blaster into the freezer.

Because the sand would eventually destroy the rubber seal, Grant put a lightweight piece of galvanized steel around the inside of the lid.



Leather welding gloves, sewed to pant legs, extend inside freezer.

He also cut a 4-in. vent hole that fits a coffee can covered by a small metal box inside the freezer so air circulates as he's working.

He wired a couple lights into the blast cabinet protected by sheet metal cone. He installed a metal grate on top of the compressor housing at the bottom of the freezer. Angle iron from an old bed frame and metal screws hold it in place. The grate comes out for cleaning when the pressure sand blaster goes empty after 100 lbs. of sand is used up.

"I love using this cabinet. It does a super job sandblasting everything."

Contact: FARM SHOW Followup, Casey Grant, 14730 Cenfield St. NE, Alliance, Ohio 44601 (ph 330 823-8373).

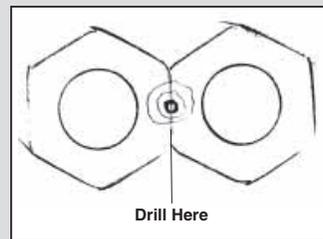
### Splitting A Nut With A Drill

Arco Rosenow, Chillicothe, Ill., says you can use a power drill to safely split a stubborn nut off its stud.

"Rather than risk twisting a stud off, or accidentally cracking a casting with a hammer and chisel, I use a power drill with a 1/4-in. dia. bit. I clamp another nut against the frozen nut, then center punch into the seam and drill a 1/8-in. dia. hole. I increase the drill bit size until the bit just touches the stud's threads. Then I use a breaker bar to work the nut back and forth. Once the nut comes loose it tends to work like a thread chaser.

"I usually clean the exposed threads and then apply penetrating oil before I use the breaker bar. If the nut is really stubborn, I repeat the procedure on the other side of it.

"The best thing about this method is that I



can still use a socket wrench on the nut," says Rosenow.

Contact: FARM SHOW Followup, Arco and Judy Rosenow, 1223 Hallock Hollow, Chillicothe, Ill. 62523 (ph 309 274-2107).