

Simple Tool Solves Hydraulic Pressure Problems

A simple tool invented by George Waite makes releasing pressurized hydraulic couplers as easy as turning on a water faucet.

Waite's Hydraulic Pressure Relief Tool works like pliers to grip the valve end. Turn a simple tap on one side of the pliers, and it slowly presses on the male fitting, gradually releasing pressure as needed. The controlled release keeps fluid from shooting all over you and the equipment and prevents damage to the coupler.

"You can release pressure and fluid into a Dixie cup with this tool," says Waite. "You don't have to try to unscrew the hose or force the coupler."

A universal reaction from people who see the patent pending tool for the first time is "Why didn't I think of that?," says Waite. The next question is, "Where can I get one?" One such person, Roger Hessler, a Colorado State Transportation Dept. worker and a personal friend of Waite, saw him fiddling with a wooden mockup.

"He said he wanted one," recalls Waite. "I said, you don't even know what it is and he replied, yes, I do. I've been looking for one for 40 years. I just didn't know what it was

going to look like."

Hessler showed a working model to his boss, who promptly ordered 100 of the tools. Waite also received the 2005 Colorado Dept. of Transportation Safety and Innovation Award for his invention.

A laser cutter cuts out pieces for the tool. At this time, Waite and his wife, Ruth, still do all needed welding and assembly, including painting and silk-screening the name and other information. They also handle all sales, either by phone or from their website.

The tools are priced at only \$24.95 for 5/8-in. couplings and \$34.95 for 3/4-in. and skid steer size couplings. Waite points out that the tool costs less than replacing three damaged male fittings. Controlled pressure release with the tool reduces potential contamination to the hydraulic system, decreases hook up time and reduces equipment down time. It also reduces risk of injury to employees from fluid discharge or tools slick with hydraulic fluid.

Contact: FARM SHOW Followup, George Waite, Waite's Tools, P.O. Box 66, Atwood, Colo. 80722 (ph 970 522-5696; bramra@kci.net; www.waite-tools.com).



Tool works like pliers to grip the valve end. Turn a simple tap on one side of the pliers and it releases pressure as needed. "It works so smoothly you can release fluid into a Dixie cup," says George Waite. "You don't have to try to unscrew the hose or force the coupler."

Pressure Gauges Troubleshoot Brakes

Figuring out why one disc brake is worn and the other isn't can be a mystery. The quick solution is to replace the calipers and pads on the worn brake. But what do you do if a few weeks later the same brake fails again.

"It could be a bad hose, stuck slide, bad proportioning valve or something else," says Peter Vinci, president, Innovative Products of America.

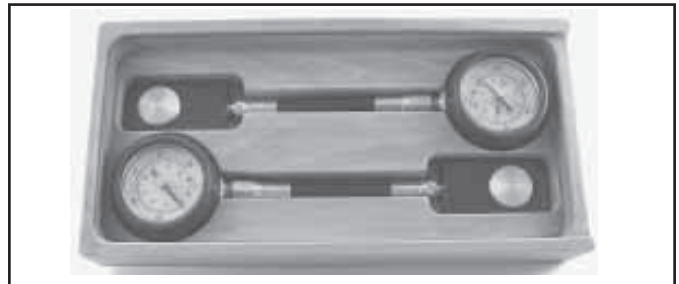
To help troubleshoot that and other pressure related problems, Vinci developed and introduced the Disc Brake System Analyzer. The Analyzer consists of two 5,000-lb. load cells attached to analog gauges that read in 0-5,000 psi and 0-350 BAR. A red "tell tale" memory needle on the dial allows one-man testing by retaining and indicating the most recent pressure reading. The gauges are packed in a wooden case and are priced at \$159.95.

In the case of the mysterious bad brake,

replacing the brake pad with one of the load cells can identify a bad hose. Step on the brake and the gauge should indicate appropriate pressure. Take the foot off the brake, and the needle on the gauge should snap back to zero. If a hose is bad, pressure will either not be indicated or may continue after the foot has been removed from the brake.

"If you compare pressure on the left and right brakes, and one is at 1,000 psi and the other at 2,000 psi, but both snap back when the foot comes off the brake, the proportioning valve may be faulty," says Vinci. The analyzer can also indicate air in the system, bypassing or leaking master cylinders and incorrect rear lining to drum adjustment.

"You can use these load cells to measure the pressure exerted by any fixture that uses jaws to squeeze shut on a part," says



Analyzer consists of two 5,000-lb. load cells attached to analog gauges that read in 0-5,000 psi and 0-350 BAR. A red "tell tale" memory needle on the dial allows one-man testing by retaining and indicating the most recent pressure reading.

Vinci.

Contact: FARM SHOW Followup, Peter Vinci, Innovative Products of America, 5401 Rt. 212, P.O. Box 266, Mt. Tremper, N.Y.

12457 (ph 845 688-2300 or 888 786-7899; fax 845 688-2400; information@ipatools.com; www.ipatools.com).

Where To Buy Parts For ATV's (Or Sell Wrecked Machines)

ATV Parts Depot

Offers a wide variety of new parts and accessories including tires, fenders, racks, winches, gas tanks, brakes, cables, ramps, seats, exhaust, levers, seat covers, pistons, rings, gaskets, chain, mufflers, sprockets, bearings, seals, ATV locker (converts limited-slip front differential to fully locked, true 4-WD), lift kits, heat fighter kits, and more.

Contact: FARM SHOW Followup, ATV Parts Depot, Manchester, Mo. (ph 800 945-1850; www.atvpartsdepot.com).

Bell's Suzuki

They carry a complete line of Honda, Suzuki, and Kawasaki accessories.

Contact: FARM SHOW Followup, Bell's Suzuki, 667 New Circle Rd., Lexington, Ky. 40505 (ph 859 299-3521; www.bellssuzuki.com).

Pat's Small Engine Plus

They carry ATV parts and accessories, ATV helmets, etc.

Contact: FARM SHOW Followup, Pat's Small Engine Plus, 23416 Baltimore St. N.E., East Bethel, Minn. 55055 (ph 763 413-1344; info@psep.biz; www.psep.biz).

Cycle Pros Salvage

One of the largest inventories of used ATV and dirt bike parts on the East Coast. All parts are inspected, tagged, and stored inside. Same day shipping by UPS.

Contact: FARM SHOW Followup, Cycle Pros Salvage, 456 Bedford St., Bridgewater, Mass. 02324 (ph 508 697-2611; www.cycleprossalvage.com).

HyperParts.com

If you need ATV brake shoes, brake pads, air filters, oil filters, bearings, seals, pistons, rings and other replacement parts, HyperParts stocks Arctic Cat, Honda, Kawasaki, Polaris, Suzuki, and Yamaha.

Contact: FARM SHOW Followup, HyperParts, LLC, 623 Mulberry Point, Aliceville, Ala. 35442 www.hyperparts.com).

ATV Tire Superstore

This website will help you make an informed decision on which tires are best for your ATV. They carry a wide array of tires from ITP, Maxxis, Kenda, Titan, Goodyear, and more. You can read about each tire and compare it to others in that category.

Contact: FARM SHOW Followup, (ph 888 481-9852; www.atv-tires-superstore.com).



Steve's Cycle

Steve's Cycle specializes in used and new parts for all Japanese motorcycles and ATV's. The company has salvaged more than 30,000 machines and has 2 acres of parts under roof, plus another 7 acres where parts and machines are kept outside. Steve's also has a connection with a nationwide cycle/ATV parts network, so if they don't have what you're looking for, they can usually find it.

In addition to selling parts and even whole machines, Steve's also buys wrecked, burned or non-working machines from individuals, insurance companies and even dealers who take in older used machines on trade that they don't want to resell for whatever reason.

Contact: FARM SHOW Followup, Mike or Alex, Steve's Cycle, 25 U.S. Hwy. 319 N., Tifton, Ga. 31794 (ph 800 622-9253; stevescycle@friendlycity.net).

East Coast ATV

East Coast buys used or wrecked ATV's and offers a large selection of aftermarket and factory parts. Used parts sell for 40 to 50 percent less than new. The company says it can locate hard-to-find dirt bike and ATV parts, usually within 24 hours. Discount factory parts are available for all makes and models.

Contact: FARM SHOW Followup, East Coast ATV, 1862 B Tollgate Road Unit 3, Palm Industrial Center, Palm, Penn. 18070 (ph 215 541-4985; fax 215 541-0433; www.eastcoastatv.com).