

You Asked For It

Several years ago I read about a farmer who reversed the air flow through the radiator of a Deere 6600 combine. Is there a kit on the market to do this? (Leighton Ziegler, Sidney, Mont.)

Aubrey Baker, Spring Hill, Tenn., bought a 1973 Deere 4400 combine in 1980 and had trouble with overheating from trash and dust plugging the radiator (Vol. 9, No. 3). "I had to clean the radiator at least once a day with compressed air. When I looked for a rotary screen, I found that Deere no longer offers a kit. So I bought a used Gleaner rotary screen and adapted it to my machine (an International screen would also have worked). I had to buy a reverse flow fan from Deere to change the direction of the air flow through the radiator. The rotary screen has a small fan on the inside of it. Each blade of the fan had to be trimmed 3/16 in. so that the screen wouldn't turn too fast. I also had to add a small brush at the bottom of the screen to help keep it clean. The screen is turned by the air pulling through it. There are no belts, pulleys or countershafts to break or wear out. It has only two small bearings that will never need to be replaced. Adapting a Deere screen to the combine would have cost twice as much and taken at least two days to install," says Baker.

I remember reading a story about a farmer who replaced the motor in his Farmall M tractor with a 248 Perkins diesel engine. Could you please run his address again? I'd also like help in finding a good used or rebuilt Perkins engine to use in my tractor. Could any of your readers help? (Bob Depperman, Box 224, Kennard, Neb. 68034)

Richie Gess, Ft. Atkinson, Wis., says the 65-hp. 248 Perkins engine was easy to install in his Farmall M (Vol. 11, No. 4). "It fit between the frame perfectly. The only modification needed was to redrill the flywheel to a 6-bolt pattern and put a 7/16-in. spacer between the flywheel and crankshaft. The tractor is now very economical on fuel and a real workhorse." Gess bought the engine, which was designed for a 175 Allis Chalmers tractor, from the company as a reject for 20 cents on the dollar. Contact: FARM SHOW Followup, Richie Gess, Rt. 2, Box 277, Fort Atkinson, Wis. 53538 (ph 414 563-8154).

I've got a new invention and would like to obtain a patent but I don't want to spend thousands of dollars obtaining one. Are there any good books that tell how to do it yourself? (Bill Johnson, Altoona, Iowa)

"Patent It Yourself", written by patent attorney David Pressman, contains all the forms and instructions needed to patent an invention in the U.S. The book takes inventors step-by-step through the entire process of protecting an invention from inception through marketing and manufacturing. It describes how to do your own patent search, and explains the use and licensing of a patent. It also describes how to obtain international patent protection, how to deal with a patent infringement, and explains other methods of protection such as copyright, trademark and trade secret laws. Sells for \$29.95. Contact: FARM SHOW Followup, Nolo Press, 950 Parker St., Berkeley, Calif. 94710 (ph 800 992-6656 or 415 549-1976).

In a past issue you published an article on an anti-sway kit for the 3-pt. hitch on IH 66 series tractors. What's the manufacturer's address? (Albert Tait, Coy, Alabama)

Jerome Klingler, New Ulm, Minn., built a 3-pt. hitch stabilizer that fits nearly all IH tractors (Vol. 10, No. 5). Built from heavy 3/4-in.

thick plate steel, the hitch blocks bolt into place with no modification of tractor. Hitch arms rub against outer plate, lubricated via a grease zerk in the blocks themselves. Spacer bolts hold stabilizer blocks in the correct position for either Cat. II or Cat. III hitches, and can be quickly changed from one to the other. They sell for \$95 a pair. Contact: FARM SHOW Followup, Klingler Mfg. Co., P.O. Box 442, New Ulm, Minn. 56073 (ph 507 359-9849).

I'm looking for information on a feederhouse reverser featured in a previous issue of FARM SHOW. (Eldon Nighthingale, Carson City, Mich.)

Ron Ball, Menlo, Kan., built his own header reverser that works with both his Deere 843 cornhead and 853A row crop heads, that he adapted to his Gleaner combine with a Bish header adapter built by Harvey Bish, Giltner, Neb (Vol. 10, No. 1). The reverser can't be activated until the header has been switched off. The guts of the reverser is a Ford 428 c.i.d. starter motor and a flywheel from a 428 Ford engine. The flywheel bolts to the variable speed drive pulley on the combine. The starter motor mounts on a steel bracket that bolts to the machine in position to drive the flywheel. The starter solenoid mounts under the combine ladder platform and a pushbutton switch goes inside the cab. Contact: FARM SHOW Followup, Ron Ball, Rt. 1, Box 13, Menlo, Kan. 67746 (ph 913 855-2370).

I'd like to redo the steering on my 1976 Ford 4-WD pickup. Some time ago you published a story about someone who sold a power steering kit for 4-WD Ford pickups. (Monte Cafavan, Red Lake Falls, Minn.)

Scott Ibeling, Aplington, Iowa, built a power steering kit that he says solves all steering problems with 4-WD Ford pickup models from 1967 to 1977 (Vol. 10, No. 4). According to Ibeling, Ford's ram assist power steering used during those years was plagued with perpetual problems. Ibeling says the sensing valve, which directs power to a hydraulic cylinder, is machined in such a way that trucks often steer more easily one way than another. It almost always develops leaks that are hard to stop, and it often blows out hydraulic hoses.

Ibeling sells a kit that lets you install an integral power steering box on the pickups. The kit fits all Ford 100, 150, and 250 pickups from 1967 to 1977, whether they were equipped with manual or ram assist power steering. He also makes a kit for 4-WD Broncos from 1974 to 1977. Contact: FARM SHOW Followup, Scott Ibeling, 1014 Parrott St., Aplington, Iowa 50604 (ph 319 347-2491).

I'm a new subscriber to Farm Show and I'd appreciate it if you could send me a complete description about a loader built from an old combine featured in one of your previous issues. (Claude Hereau, Davidson, Sask.)

Worn-out combines generally still have good engines and drive trains, says Donald Thuesen,



Dagmar, Mont., who turned an old Deere 95 combine into a king-size tractor loader (Vol. 11, No. 2). "It was easy to do and we've used the loader we built every day since we completed it a year ago with no problems whatsoever," says Thuesen. "It has hydrostatic drive so there's no clutching or shifting for forward or reverse travel."

Thuesen stripped the combine down and used the engine, operator platform and running gear. The only part of the combine separator he used was the back end, which was used to make a hood over the engine that's designed to tilt back to allow easy access to the engine. A reinforced truck frame was used to make the basic framework between the axles. The loader is a Deere 158 which Thuesen took off his Deere 4010 tractor. He uses the tractor primarily to handle large round bales. "The large wheels in front carry the load and make it much more stable than a regular loader-equipped tractor. Visibility is also much better. We control the hydrostatic drive with a foot pedal which leaves our hands free to steer and work the loader controls." Contact: FARM SHOW Followup, Donald J. Thuesen, Box 2, Dagmar, Mont. 59219 (ph 406 483-5291).

Sometime within the past year Farm Show had an article about a farmer who mounted a Gleaner combine grain head/table on his Deere 4440 tractor and used it as a front-mounted swather. I'd appreciate it if you could provide me with the farmer's address and phone number. (Edward Davis, Guttenberg, Iowa)

Gerry Alexander, Dill City, Okla., made an inexpensive front-mounted swather by mounting a 14-ft. combine header from a 1958 Gleaner A on his Deere 4440 tractor (Vol. 13, No. 1). The header is driven by a single hydraulic motor and the tractor's hydraulic system. Alexander made a subframe for the header from 3-in. box tubing that's designed to allow flex from side to side. The header can be raised or lowered 27-in. and has 12 in. of float. Contact: FARM SHOW Followup, Gerry Alexander, P.O. Box 395, Dill City, Okla. 73641 (ph 405 674-3912).

Who manufactures a kit for converting a 3-wheeler ATV to a 4-wheeler? (Larry Fisk, Seneca, Ill.)

A "bolt-on" conversion kit for 3-wheeler ATV's is available from Dahl & Schwankl, Inc., Kennedy, Minn (Vol. 13, No. 1). The conversion kit consists of a front axle and tires, front bumper, and a one-piece front fender shaped like the wing spread of an eagle. To install, you remove the 3-wheeler's front tire and fender, and then fasten a bracket with a U-clamp welded to it onto the frame just above the motor mount. Then install the new 4-wheel fork adapter. The conversion kit fits any make or model 3-wheeler. Sells for \$689 and comes with a 60-day warranty on parts. Contact: FARM SHOW Followup, Dahl & Schwankl, Inc., Box 96, Kennedy, Minn. 56733 (ph toll-free 800 537-1465).

Who manufactures a header that mounts on both combines and swathers? I'd also like to know who makes a giant roller that presses rocks underground. (Arlyn Foster, Fulton, S. Dak.)

A 36-ft. wide "two-in-one" swather-header from MacDon Industries Ltd., Winnipeg, Manitoba, mounts on either a combine or swather (Vol. 12, No. 6). "It's ideal for farmers who do both swathing and direct cutting, depending on the crop or weather conditions," says Roger Patterson, company representative. "It's so easy to transfer the swather-header between your combine and self-propelled swather that you can swath in the morning and combine in the afternoon."

The hydraulically operated header comes with separate adapter packages for combining and swathing. It fits Deere 7720 and 8820 combines, as well as the Case-IH 1680 model. Contact: FARM SHOW Followup, MacDon Industries Ltd., 680 Moray St., Winnipeg, Manitoba, Canada R3J 3S3 (ph 204 885-5590).

Twenty farmers near Ste. Rose, Man.

Canada, are using a giant "drum roller," partially filled with water, to push rocks beneath the soil surface and to seed grasses and forages into land recently cleared of brush (Vol. 12, No. 3). The drum roller, which was made by Ralph Dodge, a Lunda, Man., farmer. It stands 7 ft. high and 12 ft. wide and weighs 15,000 lbs. without water; 30,000 lbs. when filled 2/3 full of water. In field position, the tractor drawbar is connected directly to a frame around the roller. Mounted on the front of the frame, in front of the drum, are boxes for grain seed, forage seed, and fertilizer. Behind the boxes is a tine harrow for



mixing seed into the soil. Contact: FARM SHOW Followup, Alfred Bretecher, Totes-Aides, Manitoba, Canada R0L 2A0 (ph 204 732-2570).

Some time ago you published a story about a wind-driven mill that pumps air into water. I misplaced my copy of that issue. (M.L. Allen, Bow Island, Alberta)

Ken O' Brock, North Benton, Ohio, manufactures a bolt-on air compressor for water-pumping windmills that generates "free" air power without affecting windmill performance (Vol. 12, No. 4). The compressor clamps to any windmill tower and bolts to the pump shaft without modification. O' Brock supplies a specially-made 75-ft. length of polyethylene aeration tubing that is laid at the bottom of a pond. The tubing has tiny air-release slits spaced at varying intervals that close completely to keep out dirt but let air out in an even pattern that aerates the entire pond.

A compressor to fit an 8-ft. dia. windmill sells for \$600. Contact: FARM SHOW Followup, Ken O' Brock, O' Brock Windmill Distributors, 9435 12th St., North Benton, Ohio 44449 (ph 216 584-4681).

Could you please send us the address of the farmer using camels for brush control? (Neil Vincent, Rt. 3, Box 84, Aurora, Md. 65605).

William Koester, manager of the Hudson Ranch near Manhattan, Kan., has imported 18 young camels from the wilds of Australia and turned them loose on open ranch land to feed on the brush that could otherwise take over pasture land (Vol. 13, No. 4). "Camels prefer brush over grass. Their diet consists of 80% brush and 20% grass," says Koester. Contact: FARM SHOW Followup, William Koester, Bank IV Tower, Topeka, Kan. 66603 (ph 913 357-6161 (office) or 913 273-8836 (home)).

I'm writing to you in regard to an article that appeared about a toy riding combine that a small child can peddle. Please help me locate the manufacturer. (Arnold Boehler, Palm Desert, Cal.)

Rich Follmer, Hudson, Ill., designed a line of 1/15th scale farm toys, all of which can be pulled behind pedal tractors (Vol. 13, No. 3). They include a gravity wagon with a side dump door, an auger wagon with a folding auger pipe, a manure spreader, field cultivator, shredder, 6-row corn planter, chisel plow, box scraper, and tandem disk. All toys are available in red, blue or green. Follmer has also developed a pedal combine and a 12-row corn planter that folds for "road use" and has moveable markers. The toys sell for \$95 to \$137.50. Contact: FARM SHOW Followup, "Just Like Dad's", Rt. 1, Box 35-A, Hudson, Ill. 61748 (ph 309 726-2000).