



Bolt-on tool carrier moves tractor's front wheels and axles forward 15 ft. A 12 by 12-in. steel toolbar carries planter or cultivator.

"NOSE JOB" EXTENDS TRACTOR'S FRONT WHEELS AND AXLE 15 FT.

Rebuilt Tractor "Perfect For Ridges"

"It lets me run my 16-row planter and cultivator up front for better control on ridges," says Barry Eppley, Wabash, Ind., who gave his Allis-Chalmers 8070 tractor a "nose job" by buying a "Pushmobile" conversion kit from Jerry Bulmahn, of Decatur, Ind.

First featured in FARM SHOW six years ago (Vol. 10, No. 3), the conversion kit consists of a bolt-on tool carrier that moves the tractor's front wheels and axles forward 15 ft. A 12 by 12-in. steel toolbar carries the planter or cultivator. Eppley uses a 16-row Buffalo cultivator and a 16-row Orthman toolbar equipped with Case-IH air planter units.

"The front tractor wheels directly control the implement, making it much easier to stay on top of ridges," says Eppley. "I had been using 16-row Buffalo planter units mounted on a Kinze toolbar. However, the planter was wearing out and I had problems holding it on top of the ridge. The Orthman toolbar has three 2-in. Rawson fluted coulters mounted at the front of the planter, one on each side of the row and one between and ahead of them. One coulters is positioned a few inches ahead of the other. The coulters till a strip 9 in. wide through otherwise undisturbed residue without removing soil.

"Another advantage to using the Case-IH row units is that I can use the planter on conventionally tilled ground without any adjustments. Converting the Buffalo planter

to work in conventional tillage was a time consuming job."

The Pushmobile is easier to keep on ridges because it puts most of the weight on the elongated front axle. "It's very difficult to keep the implement on ridges when weight is at the rear, especially on sloping ground," says Eppley, noting that it also takes less power to push a planter or cultivator than it does to pull it."

The Pushmobile tool carrier articulates in front of the radiator. Articulation of the vertical pivoting hinge is controlled by a hydraulic cylinder operated manually from the driver's seat to assist in turning, and to help ride the ridges on slopes.

Eppley pulls a 1,000-gal. spray tank behind the tractor. He uses the tank to apply herbicides while planting or cultivating soybeans.

Eppley says the tractor can be converted back to conventional use in only 2 or 3 hours. "Just remove 10 bolts, move the front axle and wheels back to their original position, and the tractor is free for other work."

The Pushmobile conversion kit sells for \$12,000 to \$14,000, depending on the model. Fits any tractor except Deere models with radiator fixed to front axle.

For more information, contact: FARM SHOW Followup, Jerry Bulmahn, Rt. 8, Box 173, Decatur, Ind. 46733 (ph 219 547-4470).



Eppley pushes a 16-row Buffalo cultivator, pulling a 1,000-gal. spray tank behind.

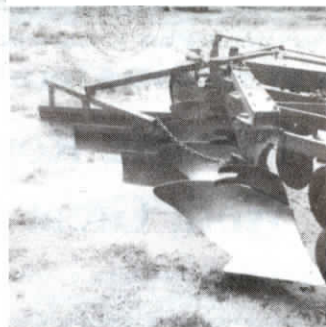
EXTENSION BLADES LIFT SOIL OFF MOLDBOARDS TO FORM TERRACE

Terracing Add-Ons For Moldboard Plows

Moldboard plows can be easily converted into low-cost terracers, according to a Kansas farmer who mounted three steel extension blades behind the middle three bottoms on his Deere 5-bottom plow. The blades catch loose soil as it comes off the moldboard and move it outward to form a terrace.

Floyd Schuckman, of Ransom, bolts the 5/8-in. thick, 10-in. high pieces of road grader blade to brackets that bolt onto the back of the middle three moldboard shanks. The add-on blades are 3, 5, and 7 ft. long, from front to back. No permanent modification is made to the plow so it can be quickly converted back to straight moldboard plowing by removing one 5/8-in. bolt and one 1-in. bolt per blade.

"It works as fast as a commercial terracer and makes terracing affordable for almost anyone," says Schuckman, who has used his plow to build 10 miles of terrace. A local manufacturer is now building the terracer blade system. "It takes only about 2 1/2 to 3 hours to build a half mile of terrace. A 3-blade setup for 4 or 5-bottom plows sells for \$950 to \$1,050. Good used semi mount plows can be bought for \$600 to \$800 so for a couple thousand dollars you can put together a terracer that compares with commercial units that cost \$10,000 to \$15,000. Custom terracers charge 12 to 15 cents per foot to rebuild terraces and 32 cents per foot to build new ones so I paid for the cost of the blades in the first two miles. The blades do cause the plow to pull harder. I've found that three blades is about all my Deere 4555



Three steel extension blades bolt onto back of middle three moldboard shanks.

160 hp tractor can handle. A 130 hp tractor could pull a three-blade model. Two blades can be used on a 3-bottom plow if you have a small tractor. One advantage of using a larger tractor is that it packs the soil, resulting in cloddy slabs that are less likely to erode from the terrace when plowed up."

A steel support tube, which attaches to the end of each blade, fastens to the front of the plow with an adjustable-length chain. The steel tube and chain keeps the blades rigid and in line. A lift tube above blades holds them up when plow is out of ground.

The mounting bracket that attaches to each plow shank can be adjusted to fit 14, 16 or 18 in. bottoms.

Contact: FARM SHOW Followup, Steel Fabrications, 2250 E. 8th St., Hays, Kan. 67601 (913 625-3075).



"Mighty-Mo" Repowered With IH Engine

After having trouble with the Moline 585 diesel engine in his A4T 1600 4-WD Minneapolis Moline tractor, Minnesota farmer Kevin Cohrs decided to make an engine swap.

"I took out the old engine and sold off the good parts. I then stripped the tractor down to the frame and attempted to mount an IH DT466 engine on it. The engine fit surprisingly well since the dimensions are smaller than the original Moline engine," says Cohrs.

"The IH DT466 engine is widely used in trucks and tractors so parts are readily available at fair prices. The engine I used came out of a truck. The only part I had to change on the engine was the oil pan, which had the sump on the wrong end so it hit the tractor's front axle. I used a pan off an IH 4366 tractor, which fit perfectly.

"To finish the job, I positioned the exhaust and air cleaner on the side of the cab and built a new hood.

"The engine is set at 210 hp., which seems about right for the tractor even though it's about 40 hp more than the Moline engine. The tractor seems to handle the extra power comfortably.

"I have 300 hrs. on the conversion with no trouble at all. The only change I'd like to make is to intercool the engine to keep the cylinder and exhaust temperature down in order to prolong engine life. I now use a pyrometer to monitor exhaust heat. I'm pleased with this engine because it's a good cold starter, gets good fuel economy and has good torque at low rpm's."

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