

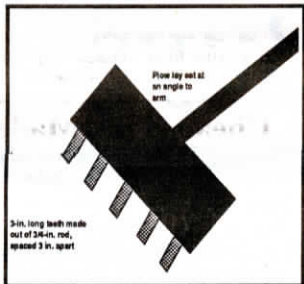
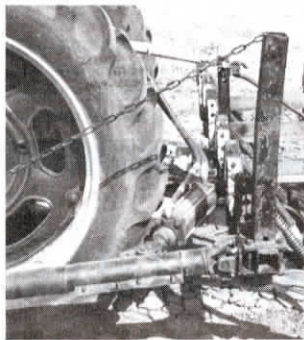
Tree Weeder Mounts On Side Of Tractor

Keeping weeds out of shelterbelts is an easy job for North Dakota farmer Milo Buchholz of Fingal who uses a small 3-pt. mounted cultivator together with a hydraulically-controlled weeder arm that moves in and out between trees.

"It's the 'cat's meow' for keeping shelterbelts clean. Makes it possible for me to plant more trees because I can easily take care of them," says Buchholz, noting that while commercial side-mounted tree weeders sell for thousands of dollars, he built his weeder arm out of scrap parts. "The only thing I bought was some short hydraulic hoses. Everything else I had on hand, including the cultivator which was originally a trailing model that I converted to 3-pt. mount."

The base of the weeder arm attaches to a bar that extends out to the side of the tractor from the 3-pt. cultivator. Buchholz put an automotive universal joint at the base of the weeder arm which allows it to move in any direction. A hydraulic cylinder, which is anchored to a bracket on the 3-pt., bolts to the weeder arm at a spot about 1 ft. from the base. This cylinder moves the arm in and out from the tractor. A spring and chain, which run from a mast at the base of the weeder arm to a point about halfway up the arm, controls depth of the cleaning fork on the end of the arm.

The fork consists of a plow lay welded at an angle to the cleaner arm with five 3/4-in. dia. teeth welded perpendicular to the old plow lay. Teeth are about 3 in. long and spaced about 3 in. apart.



"It's easy to watch the cleaning fork since the arm extends up alongside the tractor. The hydraulic cylinder moves it in and out real fast so it's easy to dodge trees and if debris gets stuck on the fork you just shake it back and forth real quick and it'll come off," says Buchholz.

Contact: FARM SHOW Followup, Milo Buchholz, 12329 45th St. SE, Fingal, N.Dak. 58031.

Do-It-Yourself Bale Spear

You can make a state-of-the-art round bale spear for less than \$100 with a new bale spear kit.

Tri-L Mfg., which makes bale spears to mount on loader buckets, front-end loader arms, and 3-pt., now sells its "Super Penetrator" bale spear by itself for people who want to put together their own bale mover or who want to replace the spear on their existing bale handler.

Tri-L's 49-in. long spear has a narrower width and a longer tapered section than other conventional bale spears for improved ease of penetration and withdrawal. The outer 3-ft. of the spear is made from high strength drop forged steel that gradually tapers to the base of the spear which is made from high strength

carbon steel. The kit includes the spear, tapered sleeve, and nut.

"Other bale spears have only a 6 to 8-in. tapered section at the end of the spear and are 2 in. in diameter or more, which makes it more difficult for the spear to break free of the bale. Our spear has a maximum diameter of 1 3/4 in. and is load rated at 2,200 lbs. It bends like spring steel but won't break. It's so strong it doesn't need reinforcing gussets. Makes such a small hole that wrapped bales can easily be resealed," says Bob Lynch, president.

The do-it-yourself kit sells for \$89.33.

Contact: FARM SHOW Followup, Tri-L Mfg., Inc., Rt. 2, Box 57, Ozark, Mo. 65721 (ph 417 485-6820).



"Split Flow" Wagon Chute

It's not easy to fill feed buckets from the wide chute of a gravity flow wagon without spilling feed. But 12-year-old Brian Geier, Coldwater, Ohio, solved the problem by building a "double dandy" wagon chute that splits the flow.

Geier used 12-ga. steel to build a W-shaped steel insert that simply wedges inside the wagon's unloading chute. Two sliding steel gates are used to control the feed flow. The chute can be easily moved

from wagon to wagon.

"When Dad buys new breeding stock he isolates them on another farm so we need temporary feed storage. Dad gave me the job of feeding the pigs, but the wagon's slide gate opener was too hard for me to reach and turn," says Geier.

Contact: FARM SHOW Followup, Marvin Geier, 5207 Erastus-Durbin Road, Coldwater, Ohio 45828 (ph 419 942-1176).

Low-Cost Portable Sandblaster

When Rich Hansmann, Pendroy, Mont., needed a portable sandblaster for restoring antique cars and tractors, he decided to try to make his own.

He salvaged an old 3-ft. high, 14-in. dia. pressure tank from a scrapyard and converted it into a low-cost sandblaster that rolls easily on two wheels.

"I built it for about \$70, but it works as well as commercial sandblasters that cost \$300 or more," says Hansmann.

He mounted a pair of lawn mower wheels on the bottom of the galvanized tank and cut a 3-in. dia. hole in the top where he welded in a threaded pipe fitting. This is the fill hole for sand. A metal cap, sealed by a rubber gasket, screws on over the pipe fitting.

He mounted a "T" pipe on top of the tank that connects to an air hose that goes to the bottom of the tank, where another hose sucks sand from the tank and delivers it to a ceramic sand blasting nozzle. Air pressure is provided by a compressor that hooks up to a nozzle on the top-mounted "T" pipe.

"It works great. The only money I spent was for 1/2-in. valves and the sand blasting nozzle. I used single-braided hydraulic hose that I already had. One disadvantage is that my tank is round on top. Commercial models are concave on top which creates a natural funnel for filling the tank with sand. I made my own funnel to use in the fill hole."



Three valves and a pressure gauge attach to the T-pipe on top of the tank. One valve is used to shut off the air supply from the compressor. Another valve regulates the amount of air in the hose coming off the "T" pipe. The third valve regulates the amount of air that goes into the tank. A valve at the bottom of the tank regulates the amount of sand that's sucked out of the tank.

Contact: FARM SHOW Followup, Rich Hansmann, Box 23, Pendroy, Mont. 59467 (ph 406 469-2288).

