

Oil Injector Made From PVC Pipe

"A length of 4-in. dia. pvc pipe makes a dandy pressurized oil transfer reservoir for getting oil into hard-to-reach places, such as gearboxes and differentials on trucks and tractors," says Richard Breneman, Parsons, Kan., who says the 40-in. long pvc pipe he uses holds 4 gal. of oil.

"It moves about 1 gallon of oil a minute," says Breneman. "We do all our own mechanical work. Our tractor holds 15 gal. of oil and we got tired of using a mechanical pump when we changed oil. It only pumped 1/2 pint for every stroke of the lever."

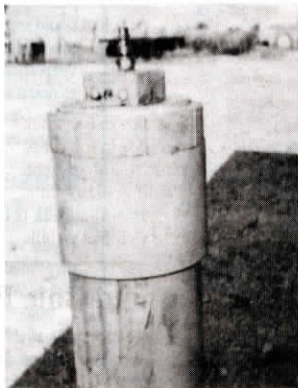
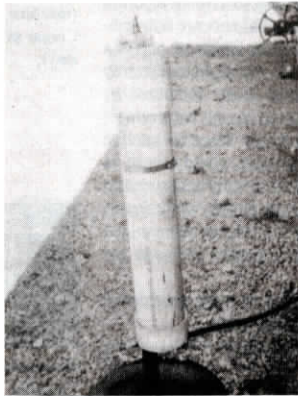
The pvc pipe is capped on top and fitted with a threaded air inlet coupler. The bottom end of the pipe is fitted with a hydraulic hose coupler.

Breneman fills the pipe through the top by unscrewing the coupler. To transfer oil, he hooks up an air compressor hose which forces it out the bottom.

"Once I hook up the air compressor there's no way to shut off the flow of oil so I fill the pipe up only with as much oil as needed for each job. Before I hook up the air compressor hose I make sure that the end of the hydraulic hose is inserted in the gearbox or differential. You could, however, put a valve on the discharge hose to control flow," says Breneman, who uses about 80 lbs. of air pressure.

The pvc pipe is clamped to a length of angle iron mounted on a disk blade base.

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He Wipes Weeds As He Cultivates

"It saves time and chemicals," says James Heise, Mt. Pleasant, Iowa, who mounted a height-adjustable wick wiper bar on the back of his 8-row cultivator so he can wipe Roundup onto tall-growing weeds and volunteer corn as he cultivates.

When Heise first got the idea, he mounted the wick bar on fixed brackets attached to the frame of the cultivator. The problem was that the crop, and weeds, had to be at just the right height for the wick bar to do a good job. That's when he decided to mount the wick bar on a height adjustable lift frame off the back of the cultivator that lets him move the wick bar up and down as necessary to do the best job.

He mounted two 10-ft. wide Speidel Applicators (7800 S. 40th, Lincoln, Neb. 68516 ph 402 423-4003) on a lift frame made out of 4-in. angle iron. There are

three hinges on the cultivator toolbar. A single 8-in. stroke cylinder raises and lowers the wick wiper, which is positioned several feet behind the rear cultivator shovels.

"It drops down about as low as the cultivator shovels so, if needed, we can wipe weeds without cultivating. At first I had the wick bar too close to the back of the cultivator so the shovels would hold corn down when the wick bar passed over so it wouldn't get a full application of chemical. I had to move the wick bar back further so that the corn, and other tall-growing weeds, would have room to stand up before they hit the wick bar," says Heise.

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Harold M. Johnson, Editorial Director



Hydraulic Post Driver Always Stays Plumb

"It automatically plumbs itself so we can use it to drive steel posts on uneven ground with no problems," says Bob McIntyre, Rhodes, Iowa, about the side-mounted hydraulic post driver he made to mount on the rollbar of a Ford tractor.

The post driver hangs from a swivel bracket at the end of a 4-ft. long steel pipe that attaches to a hinging bracket on the rollbar. The driver consists of a long piece of heavy-duty angle iron with a block of steel welded to the top and a 30-in. long hydraulic cylinder attached to the back of it. The angle iron driver and cylinder hang from a strap iron bracket that's welded to a 6-in. piece of pipe that swivels back and forth on the end of the top cross arm. The top cross arm, which is braced by an adjustable 3-pt. top link, also swings back and forth.

To drive a post, McIntyre slips a post into the driver, holding it in place with a steel pin, and then extends the cylinder.

To pull a post, he just reverses the process. The crosspin catches on the teeth on the face of the post.

"It works much better than most 3-pt. commercial post drivers because it keeps the post straight even on rolling ground," says McIntyre, supervisor of the Iowa State Research Farm near Rhodes, Iowa. The farm has 10 miles of fence on 1,700 acres of rolling pasture. "It automatically plumbs itself so I don't have to spend a lot of time making adjustments. Another advantage is that the post driver is off to the side of the tractor rather than behind it which eliminates the need to back up to the fence. I paid \$100 for the cylinder. I built the rest of the post driver from scrap metal."

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