

## Hot Windshield Washer Fluid Keeps Windows Clean

This new windshield cleaning system always keeps the washer fluid in your vehicle hot, preventing wiper freeze-up in cold weather and keeping your windshield clear despite freezing rain, frost and road slush, says Crysteel Truck Equipment, Lake Crystal, Minn.

The Clear Fast windshield cleaning system heats windshield washer fluid to 120 degrees Fahrenheit. It operates through the vehicle's existing wiper controls.

The system consists of a 150 ml tank with a heater at the bottom that operates off the vehicle's battery. Fluid is transferred from the tank directly into the vehicle's existing windshield fluid container. The unit automatically comes on whenever the engine is operating and provides hot fluid on demand until the engine is shut off. It automatically goes to high heat when the windshield washers are used, and modulates to low power when the wash cycle is completed.

"It quickly removes snow and ice from your windshield and eliminates the need for ice/snow scraping," says Kyle Wiens. "It also eliminates interior windshield fogging in most weather conditions. It's useful even during the summer as it quickly removes bug residue and road film. It's especially useful



**Windshield cleaning system always keeps the washer fluid in your vehicle hot.**

for semi tractors because they have large windows which can be difficult to clean. The unit also works well on light duty trucks and pickups."

Sells for \$179 plus S&H.

Contact: FARM SHOW Followup, Crysteel Truck Equipment, Highway 60 East, Lake Crystal, Minn. (ph 800 722-0588 or 507 726-6041; cwiens@crysteeltruck.com).

## 3-Pt. Mounted Shop Hoist

"It works great as both a forklift and a shop hoist," says George Diggs, Tower Hill, Ill., who removed the caster wheels from a shop hoist and mounted it on the 3-pt. hitch on his compact tractor.

"I wasn't using the shop hoist all that much anyway. I was going to make a set of forks for my tractor's 3-pt. until I decided the lower part of the hoist could serve that purpose," says Diggs.

He welded a couple of brackets made out of 3-in. angle iron to the hoist and drilled holes in them to fit the pins on the 3-pt.'s lift arms. About 26 in. up the back side of the hoist beam he welded two pieces of flat stock to attach to the top link.

"I can still use it as a shop hoist but now I can also use it as a forklift," says Diggs. "It also works great as a log hoist and skidder, and I use it with a square water tank to carry water to animals. And it works great for moving things around our yard. There seems to be no end to what I can use it for."



**George Diggs removed the caster wheels from a shop hoist and mounted it on his tractor's 3-pt. hitch. "There seems to be no end to what I can use it for," he says.**

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## Easy Portable Hoist

"This isn't that new or revolutionary, but it sure worked out well for me," says Woody Cone, Rochester, N.H., who mounted an engine hoist on front of his older Deere tractor.

"I needed a way to lift the heavy concrete cover off my well. So I chained the engine hoist securely to the front weight bracket of one of my pulling tractors and it worked fine. Once I was done, I just took the hoist off and put it back in my shop," says Cone.

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**Woody Cone mounted this engine hoist on front of his older Deere tractor.**



**Wheeled dumpster "can be dumped as quickly or as slowly as I need," says Henderson.**

## Lots Of Uses For Dumpster On Wheels

Gailey Henderson says his wheeled dumpster is worth its weight in gold. He uses it to haul all kinds of loads.

"It can be dumped as quickly or as slowly as you need," says Henderson. "Most of the time, I just back up and trip it."

Henderson got the dumpster for "a hair over scrap price" at a bankruptcy auction. The 10-ft. wide dumpster was too big for most farm tractors to handle and too wide for the road. He cut it down to 8 ft. and mounted it on an old house trailer axle with brakes and lights. He mounted a trailer tongue on front.

"The axle already had springs and mounts for the trailer frame," explains Henderson. "All I had to do was jack it up and slide the axle under a frame I made from the trailer house frame."

The dumpster itself simply sits on the cart. However, two half circles at either end of the dumpster sit over the edge of the trailer frame. When the dumpster is tripped, teeth at the edge of the half circles drop into notches that Henderson cut in the trailer frame. They fit like sprockets in a roller chain holding the dumpster in place on the cart even as it tips.

"There's a trip lock on the front that I



**Wheeled dumpster mounts on an old house trailer axle with brakes and lights.**

can release for a quick dump," says Henderson. "For slower, controlled dumps, I mounted a hand winch on the trailer tongue. It lets me use the cart for spreading."

He says the cart works as well for hauling liquids as solids. He drilled a drain hole in the bottom of the dumpster and uses a simple bolt to seal it up when in use.

"It's water tight, so it doesn't leak as you go down the road," says Henderson.

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**"I like it because there's no need to hassle with gas or electric cords," says John Gross, who converted his 2-cycle gas-powered snowblower to a cordless model.**

## Cordless Snowblower

"It works on the same principle as other cordless tools such as drills, saws, and sanders except that it's much bigger. I like it because there's no need to hassle with gas or electric cords," says John Gross of New Berlin, Penn., who converted his 2-cycle gas-powered snowblower to a cordless model.

He started with a 1996 Toro snowblower that he already had and removed the snowblower's hood, engine and gas tank. He bought a used starter motor off a Chrysler car for \$20 at a junk yard and bolted it to a metal frame. He also bought a 12-volt car battery at Wal-Mart and mounted it on the same frame. The battery is wired to a solenoid and to the starter motor.

The snowblower's engine originally used a serpentine belt to drive the impeller. Gross

removed a small sprocket gear from the engine shaft and installed a small pulley and a 3/8-in. V-belt. He also installed a household wall switch on a junction box and then bolted it to the frame.

"To operate the snowblower all I do is flip the switch to start the motor, then off I go," says Gross. "I use an ordinary small automobile charger to recharge the battery. It takes an hour or two to recharge it. The battery will last for about a half hour to 45 minutes on a charge, which is long enough to clear my driveway."

Gross says he'd be interested in talking to a manufacturer.

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