



Steel legs each contain hydraulic cylinder. Pair of valves on back of frame allow either side of tractor to be raised independently.

LIFT FRAME RAISES BACK END OF TRACTOR 1 1/2 FT. OFF GROUND

3-Pt. Hydraulic Jack Lets Tractor Raise Itself

"Our new 3-pt. hydraulic jack uses your tractor's hydraulics to raise the back end of the tractor up to 18 in. off the ground. It takes most of the work out of repairing punctures or changing tires," says farmer-inventor James Gordon, Tarves, England.

The jack consists of a pair of square steel legs that each contain a hydraulic cylinder. The legs telescope in or out from 4 to 6 ft. apart, depending on the size of tractor. A pair of valves on back of the frame allow you to raise either side of the tractor independently. One-way valves on the cylinders keep the legs from collapsing if the tractor

stalls or a hydraulic hose breaks.

According to Gordon, the jack will lift any tractor with the possible exception of Caterpillar's Challenger or the largest 4-WD's. Pads can be mounted on the jack legs for use in muddy conditions. The lift frame can be taken apart in three pieces and loaded onto the back of a pickup.

Gordon and manufacturer Bill Higgins are working on a similar jack system for raising the front of the tractor.

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Hook at end of rod is cushioned by plastic so calf can turn its leg without bruising it.

PLASTIC-COATED STEEL HOOK GRABS CALF'S ANKLE

New Calf Catching Tool

Jim Zoucha first got the idea for his calf catcher about five years ago when an outbreak of scours hit his calves and he had trouble catching them. It worked so well that he and wife Lisa recently decided to put it on the market.

"It lets you catch sick calves earlier and easier," says Zoucha, noting that his calf catcher works like a chicken hook.

The "Safe-T-Katch" is a steel rod covered with plastic that has an open-end hook on one end. You catch the calf just above the hoof. The specially-shaped hook is cushioned by the plastic so the calf can turn its leg without bruising it.

The calf catcher comes in two models that are sold together as a pair. The 3 1/2-ft. long model has a pistol grip and the 7-ft. long model, which weighs 4 lbs., has a forearm cradle. "The short model works great when you're driving an ATV and in close quarters where there's not much room to maneuver. The long model works better out in the open," says Zoucha.

Sells for \$49.95 per pair plus \$7.50 for shipping and handling.

For more information, contact: FARM SHOW Followup, Lisa Zoucha, Rt. 2, Box 179A, Clarks, Neb. 68628 (ph 800 846-5157).



Klug removed both axles from 1972 IH 815 combine and mounted original front drive axle on back, then mounted front steering axle off old Allis-Chalmers tractor on front.

ORIGINAL DRIVE AXLE MOVED TO BACK

Crop Sprayer Built From Old Combine

Waseca, Minn., farmer John Klug turned a 1972 International 815 combine into an 80-ft. wide self-propelled sprayer that offers great visibility and lets him cover acres fast.

Klug stripped away everything but the engine, rear axle, and cab. He used an old International semi truck frame to build a chassis that supports a 750-gal. tank mounted behind the cab and a 3-section Blumhardt boom in front. He removed both axles and mounted the original front drive axle on back, then mounted large 18.4 by 42 tractor tires on it. He mounted the front steering axle off an old Allis-Chalmers 220 tractor on front and fitted it with 20-in. implement straddle four 30-in. rows.

"We needed more capacity and wider booms than our Deere 6000 Hi-Boys sprayer," says Klug, who built the unit with help from sons Tom and Bill. "It had a 300-gal. tank and 60-ft. wide boom. I used this new rig to spray about 1,500 acres on my farm last year and did another several hundred acres of custom spraying. On a good day I can spray 40 or 50 acres per hour at 6 mph. At 20 gallons per acre I can go almost 40 acres without refilling. A bigger tank would be nice but might be too heavy for muddy fields. Mounting the drive axle in back and steering axle in front makes it easier to handle. Weight of the engine and spray tank

"Visibility from the cab is excellent. Because the sprayer has the combine's hydrostatic transmission, I can operate at variable speeds for different rates of application. The rear-mounted engine is very accessible for changing oil and for general maintenance. The combine's original gas engine wore out so we replaced it with a used 6-cylinder diesel engine.

"A hose leads from the bottom of the spray tank to a fill spout mounted behind the engine. The sprayer's centrifugal spray pump is belt-driven off the engine. The air cleaner is mounted up high on a section of pvc pipe to keep it out of the dust. The boom height can be hydraulically adjusted from ground level up to 4 ft., allowing me to spray broadleaf weeds in soybeans or tall corn."

Klug bought the combine from a farmer for less than \$600. One problem was that the new steering axle was connected to the front part of the frame at only two points which made the frame unstable and could have caused the ends of the boom to hit the ground. To solve the problem he mounted an old truck coil spring onto the end of each axle between the frame and axle.

For more information, contact: FARM SHOW Followup, John Klug, Rt. 2, Box 298, Waseca, Minn. 56093 (ph 507 835-2129).



Klug widened combine's drive axle by moving wheel rims out as far as possible on axle housings. He then welded truck wheels onto the inside of each rim. Note magnets for Raven ground speed monitoring system mounted on inside edge of truck wheel.