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An important part of a tractor is the Power Takeoff or



Safety Tips: Know the Dangers of a PTO



PTO. It (PTO) provides a means of transmitting power between a tractor and another piece of farm machinery. Some examples of PTO-driven equipment are hay balers, rotary cutters, weed mowers, forage blowers and irrigation pumps. ✓

THE DANGER OF POWER TAKE OFFS-

- ✓ PTO shafts rotate at a very high speed 540 or 1000 revolutions per minute when they are operating at normal operating speed.
- ✓ Most PTO accidents happen when folks get too close to the rotating shaft, especially if the guards are missing or damaged.
- ✓ Hair, loose clothing, such as pant legs, drawstring in "hoodies", sweatshirts or jackets can get caught on the shaft and wrap around it.
- ✓ The chance of this happening increases if there are nicks, dried mud or manure on the guard.
- ✓ Hair or clothing can also catch in the U-joints or other fastening devices and wrap around the PTO shaft.
- ✓ Once the hair or clothing gets caught in the shaft or U-joint it is virtually impossible to escape. The more you try to pull away the tighter the wrap becomes.
- ✓ It only takes a fraction of a second for hair or clothing to be torn off or your body wrapped around a spinning shaft.

SAFETY DEVICES WILL HELP-

- ✓ PTO shields cover the shafts which help one from getting entangled.
- Check to see that the shields or guards are in place on the equipment with PTO drives.

- ✓ Report any problem that you see or detect with equipment that is missing the shields or guards.
- ✓ Don't try to operate the machinery if the shields or guards are damaged or missing. (We see equipment in some of our research units being used with missing or damaged shields as if they don't belong on the shaft or U-joints).

TIPS ON SELF-PROTECTION -

cover only part of the shaft.

- ✓ When you finish a job, turn off the PTO before you get off the tractor. Stop the tractor, turn off the key and take it out.
- ✓ Don't go near the PTO drive line until all parts have stopped moving.
- ✓ Obviously, don't try to check, adjust, unplug or grease any PTO powered equipment while the PTO shaft is turning.
- ✓ Check the manufacturer's instructions on how to hook up an implement to the PTO. Make sure no one is on or around the equipment when you're hooking it up.
- ✓ If a PTO is working while the tractor is stationary, be sure that the tractor is in neutral or park and the parking brake is on.
- ✓ Don't wear lose clothing around a PTO (2nd reminder). If you have long hair, pull it back and tie it up or wear a hat and tuck it in.
- ✓ Each time that you hook up an implement, be sure that the shields are in place and are working properly.

<u>SAFETY-THE MEASURE OF SUCCESS</u> THINK <mark>SAFETY</mark> <><>ACT <mark>SAFELY</mark>