

Deere's Row-Crop Tractors Feature New Axle Design

MOLINE, IL — A new mechanical front-wheel-drive axle, designed and built by John Deere, has been introduced for use on all Deere 50 series row-crop tractors, incorporating several fea-

tures to increase strength and reliability.

A design breakthrough minimizes the chance of seal failures. Constant-velocity u-joints, sleeve, and powershaft separate the

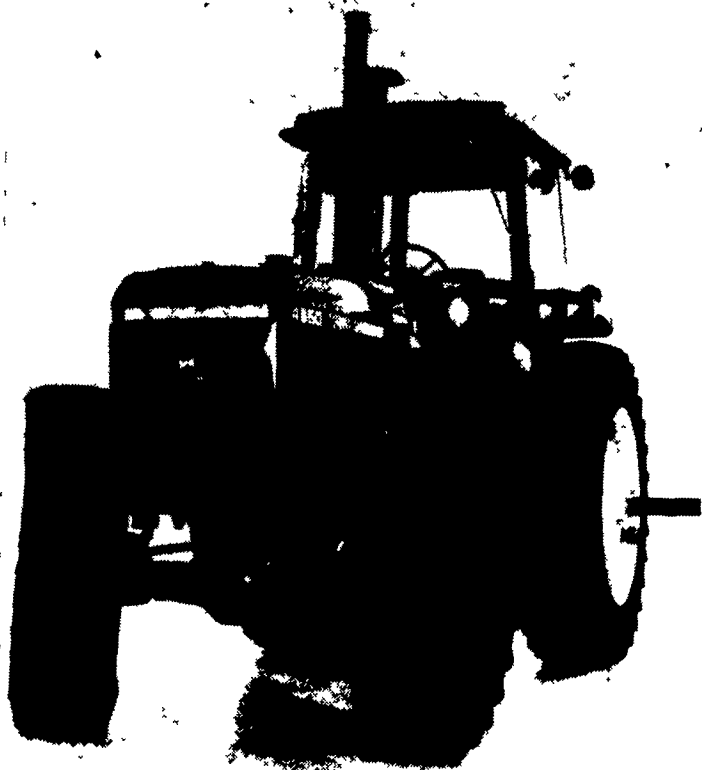
driveshaft rotary motion from the reciprocal (in-out) motion of the u-joint. Reciprocal motion is absorbed inside a sealed sleeve and the rotary motion is absorbed by a second seal positioned on the outer surface of the sleeve assembly. "Z-wiper" seals are held firmly against the shaft to prevent contaminants from damaging the seal assembly. Planet pinion posts (shafts) are cast in the hub to increase strength and ease of service.

Increased strength has been added with a new ball-and-socket kingpin design. A steel ball fits between two metal socket halves and is sealed with an O-ring to keep dirt out and grease in.

A "flip-up" steering stop is adjusted by loosening a cap screw and rotating it to predetermined stops at 50, 42, 34, and 25 degrees. The high-pivot-point axle mounting permits the axle to oscillate a full 10 degrees before contacting the fixed axle stops. This design

virtually eliminates stress damage to the tractor chassis, regardless of the tread setting.

Features retained from the previous axle include the Deere patented 13-degree caster angle, engage/disengage on-the-go, and a four-pinion, clutch-type, limited-slip differential that automatically applies torque to the wheel with the greatest traction. Turning radius remains the same as for tractors with the previous axle.



The new front-wheel-drive axle on this row-crop tractor minimizes the chance of seal failure and can oscillate a full 10 degrees before contacting the fixed axle stops.

Multi-County Horticulturist To Work In Adams, York, Franklin

GETTYSBURG (Adams) — William C. Kleiner has been appointed to The Pennsylvania State University's Cooperative Extension Staff as an associate extension agent serving a multi-county area consisting of Adams, Franklin, and York. His appointment began May 1, 1988.

Dr. Wayne Schutjer, Penn State associate dean for extension, points out that Mr. Kleiner will conduct educational programs in the broad areas of commercial fruit production, processing and marketing.

A native of Dallas, PA, he received a bachelor of science



William C. Kleiner

al agriculture, and 4-H youth. He has just completed a master of science degree in Fruit Plant Pathology under the direction of Dr. James Travis, Associate Professor of Plant Pathology, at Penn State University.

While in graduate school he was the assistant diagnostician for the Penn State Plant Disease Clinic, diagnosing diseased plant specimen from commercial and home horticulture growers throughout the state.

In undergraduate college he was co-manager of the Penn State Horticultural Show and member of the Horticulture Club, Coaly Society, and Pi Alpha Xi Society.

He is a member of the State Horticultural Association of Pennsylvania, National County Agents Association, American Phytopathological Society, and the Penn State Alumni Association.

He and his wife, Kathleen, have two children, Justin and Deanna. In Adams County he will be associated with the County Extension Director, Thomas E. Piper with offices at 1135 Chambersburg Road, Gettysburg.

degree in horticulture from Penn State in 1980.

Prior to being named to the Adams County Extension Staff, Kleiner served five years as a County Agent in Penn State Cooperative Extension in Lackawanna and Clearfield Counties conducting educational programs in the areas of horticulture, gener-



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