

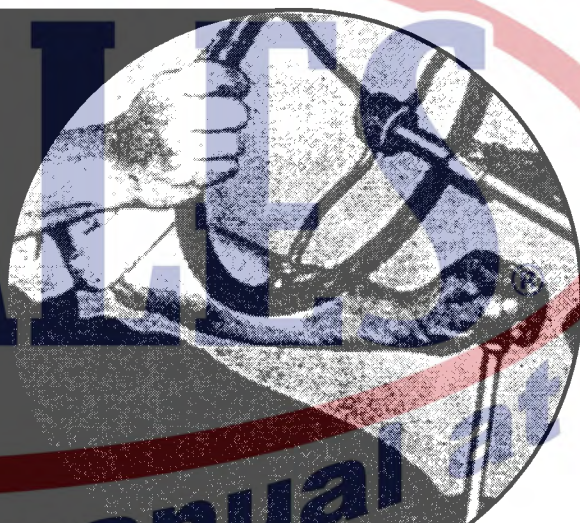
John Deere

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MODEL:

Number 71 Cylinder
Corn Sheller

OPERATOR'S
MANUAL



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**NO. 71 CYLINDER
CORN SHELLER**

MANUAL PREVIEW

OPERATORS MANUAL

**NO. 71 CYLINDER
CORN SHELLER**

OMC381256 (01DEC56) English

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DESCRIPTION

The John Deere No. 71 Cylinder Corn Sheller is designed to meet the needs of large farm operation where periodic shelling jobs are required for stock feeding or where the storage of shelled corn is a problem. The capacity and clean shelled corn features also makes it acceptable for small custom jobs.

The two wheel mounted John Deere No. 71 Sheller is available either as a power take-off driven machine or flat belt driven from the pulley of the tractor. It is also available as a warehouse sheller.

The elevator will deliver shelled corn to a height of 8-1/2 feet and can be equipped with a grain spout or a Hart conveyor.

Sacking equipment is available when ordered. Slitting bands for snapped corn are optional equipment. A canvas dust tube for end of blow pipe is available when ordered.

SPECIFICATIONS

Weight (Equipped with PTO Drive and 5:90 x 15 Tires).....	2015 lbs.
Over-All Length.....	228 in.
Over-All Width (With Cob Stacker).....	166 in.
Over-All Height.....	126 in.
Power Requirements.....	15 to 30 h.p.
For Warehouse Installation.....	20 h.p. electric motor
Capacity:	
Husked Corn	250 to 500 bu. per hour
Snapped Corn	75 to 200 bu. per hour
Main Shaft Speed (Under Load).....	750 rpm
Shoe Strokes (Under Load).....	232 strokes per minute

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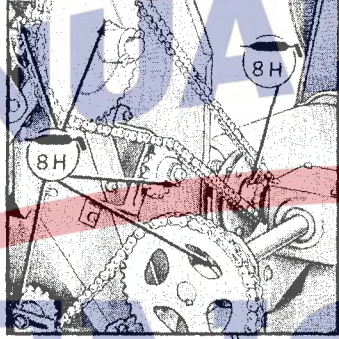
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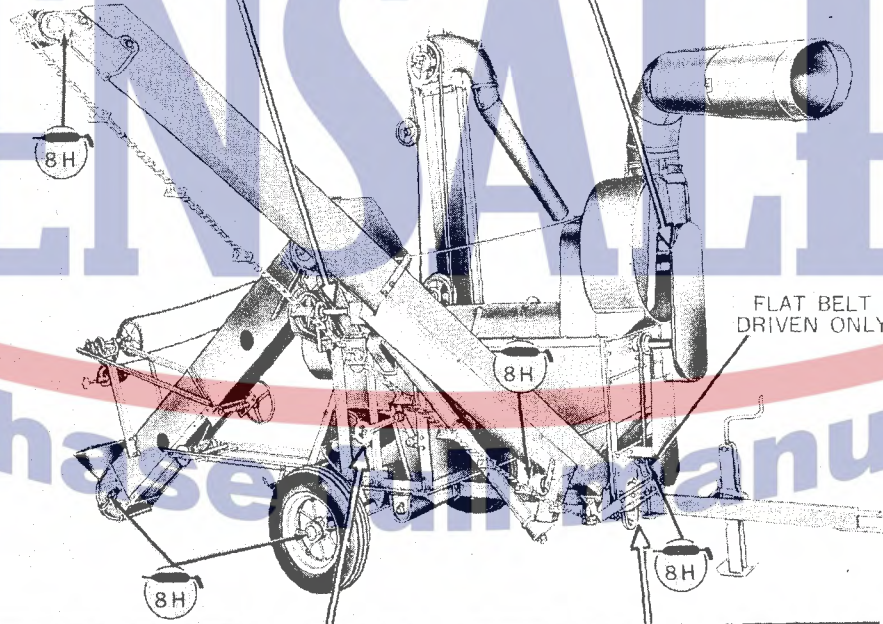
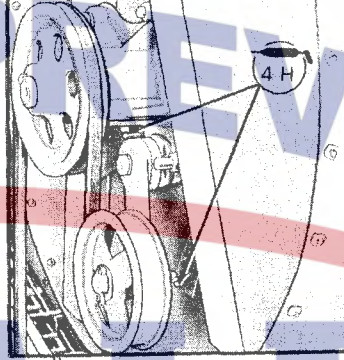
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LUBRICATION

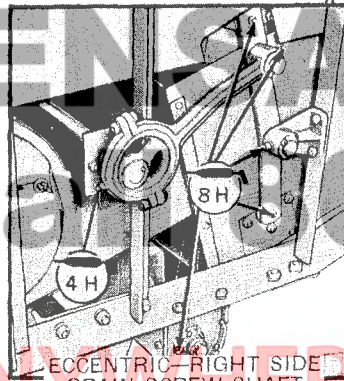
FEEDER HEAD SHAFT
CROSS AND COUNTERSHAFTS



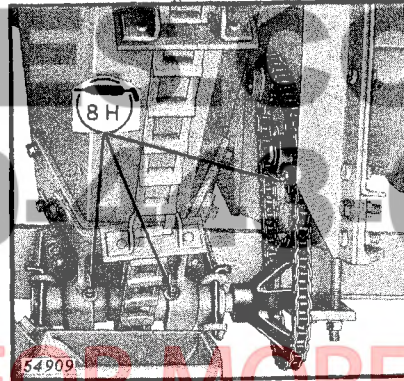
SHUCK FAN



FLAT BELT
DRIVEN ONLY



— ECCENTRIC—RIGHT SIDE
GRAIN SCREW SHAFT



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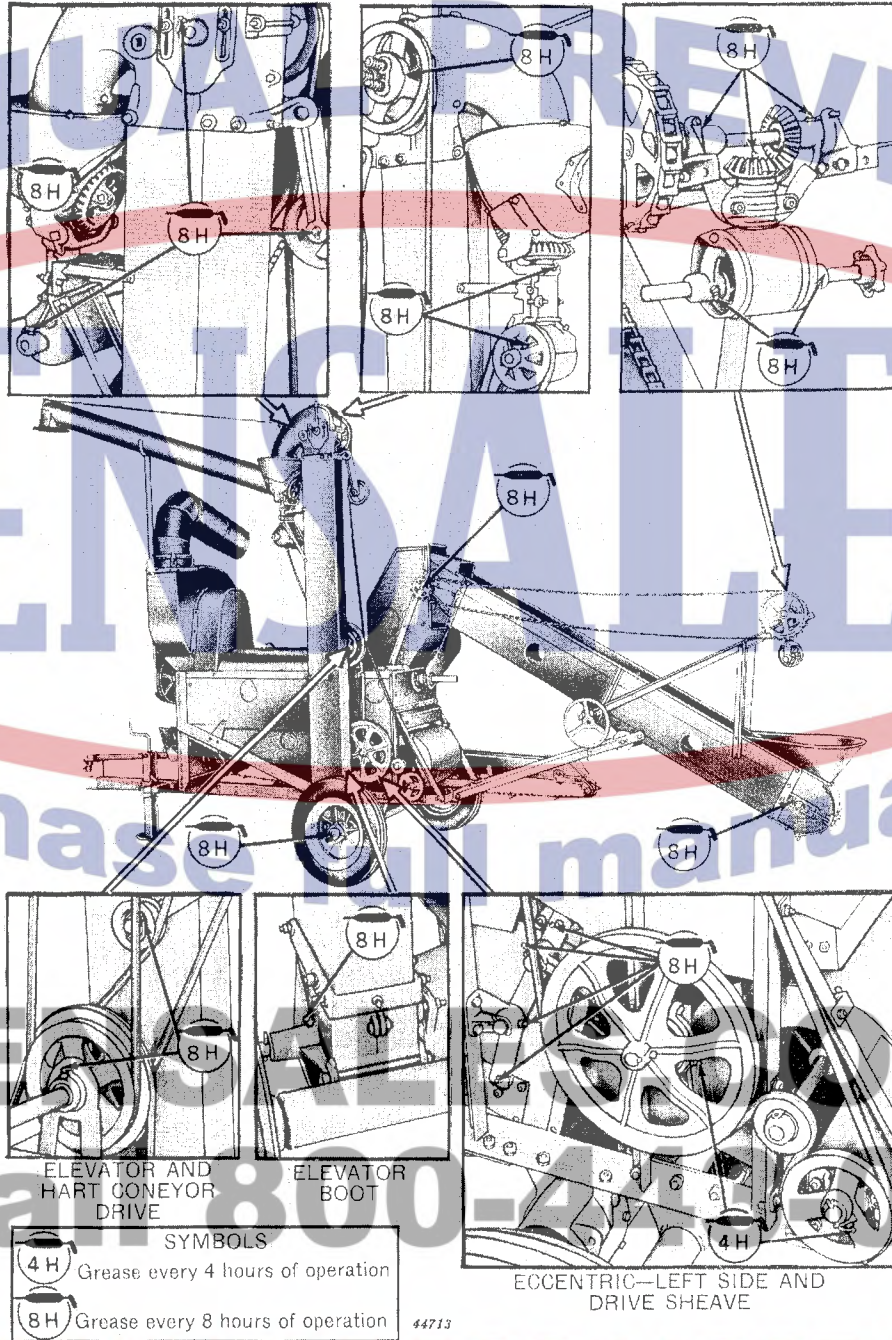
LUBRICATION

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LUBRICATION — Continued

ELEVATOR HEAD AND HART CONEYOR

DRAG FEEDER JACK



eccentric—LEFT SIDE AND DRIVE SHEAVE

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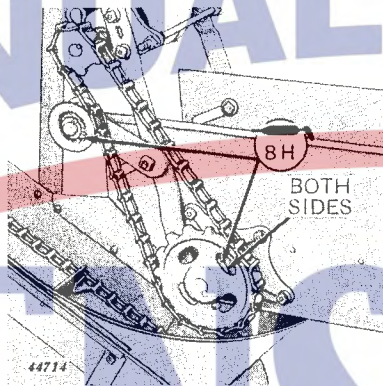
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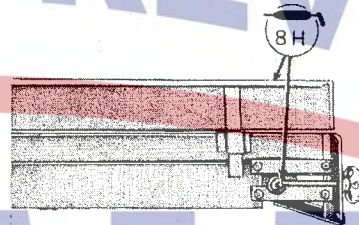
LUBRICATION

LUBRICATION — Continued

HEAD SECTION FOR
DRAG FEEDER



TAIL SECTION FOR
DRAG FEEDER



SYMBOLS



Grease every 4 hours of operation.



Grease every 8 hours of operation.

Wipe dirt and old grease from oil fittings before greasing.

To facilitate attaching and detaching universal joint drive from tractor, wipe the splines clean and apply a light coating of oil.

The gear case for cross and counter shafts has been filled with SAE 90 transmission oil at the factory. Check periodically and refill if necessary to oil level line on outside of gear case.

The blast fan shaft, eccentric shaft, main shaft, and PTO drive have, greased for life, sealed bearings and do not require lubrication.



CAUTION: Do not oil or grease sheller while it is running.

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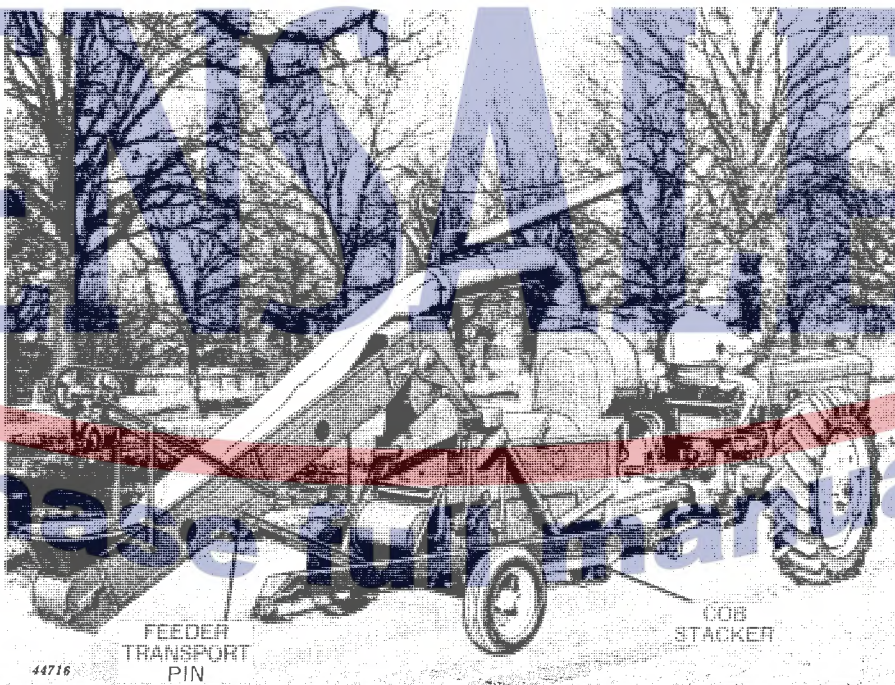
OPERATION

The quality of work done by a sheller depends largely on the operator making use of the simple adjustments on the machine for a wide range of shelling conditions. Following is a list of instructions which will aid in securing the utmost in performance and long life of the John Deere No. 71 Cylinder Sheller.

TIRE INFLATION

Inflate 5.90 x 15 tires on trailer to 28 pounds.

TRANSPORTING



The above illustration shows a John Deere No. 71 Cylinder Sheller being transported from one shelling job to another.

Before transporting the sheller on a public highway, remove the cob stacker from the support brackets and place it in the transport brackets.

Raise the feeder so that the holes in the lifting device angles match with those in the feeder lower trough angles and insert feeder transport pin. Insert a spring locking pin in end of transport pin. This will keep the feeder secure when traveling over rough highways.



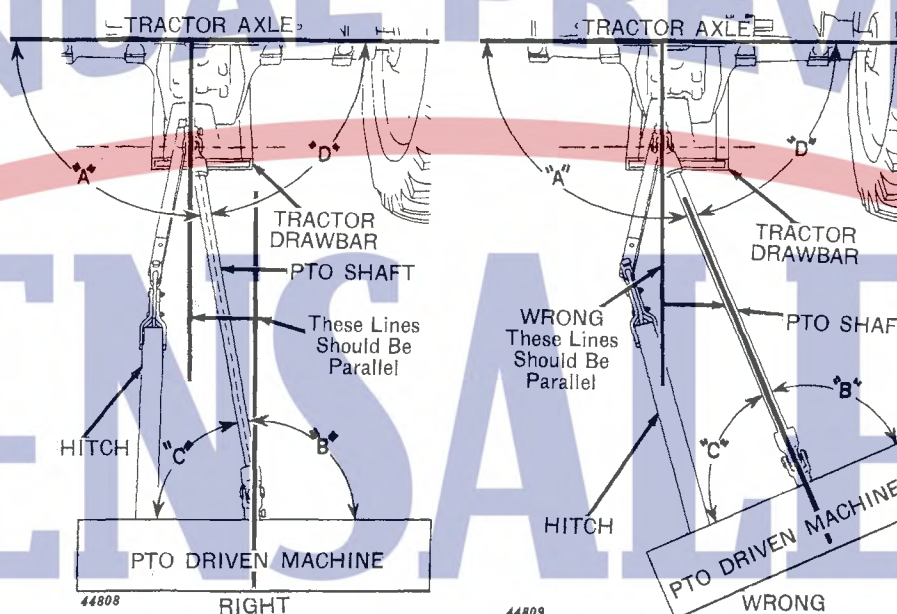
CAUTION: Be sure all guards and shields are in place before starting sheller. Do not attempt to adjust or repair sheller while it is in motion.

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SETTING SHELLER

Set the sheller so that it is level both sideways and from front to rear.

PTO Drive Sheller.



To avoid premature failure of the PTO universal joint drive, the tractor rear axle must be parallel with the front of the sheller. The illustration on the left shows the correct setting of sheller in relation to the tractor.

When the tractor and sheller are aligned correctly, angles "A" and "B" will be equal and angles "C" and "D" will also be equal.

The illustration on the right shows the wrong way to align the tractor and sheller. Note that the tractor axle and front of sheller are not parallel, thus setting up unequal angles at "A" and "B" and also at "C" and "D."

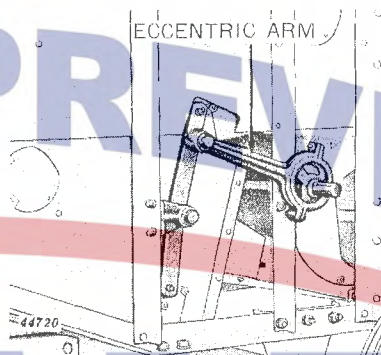
If these angles are not the same, unequal velocities are set up within one joint without being compensated for in the other joint. This results in early universal joint failure.

Belt Driven Sheller.

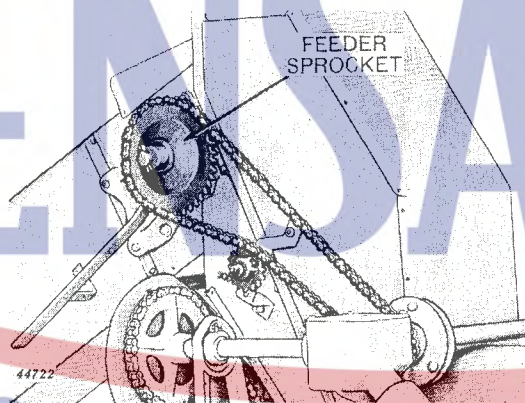
If the sheller is belt driven from the tractor pulley, line up the tractor so that belt runs on the center of both pulleys. The main shaft must rotate clockwise when standing at the rear of sheller facing the drive pulley.

SHELLER SPEED

For best performance operate the sheller main shaft at 750 rpm. This speed provides 232 shoe strokes per minute or approximately 39 strokes every 10 seconds. The shoe strokes per minute can be determined by using a stop watch and allowing the end of eccentric arm to touch a finger at the end of each forward stroke of the shoe. **Remember that correct speed is important.**



FEEDER SPEED



A constant even flow of corn into the feeder, and keeping the cylinder full, will give the best results.

The amount of corn fed into the sheller cylinder can be regulated by using one of the following three sprockets on the feeder head shaft:

- 8187C—31-tooth sprocket for dry husked corn.
- 8188C—41-tooth sprocket for average husked corn.
- 8189C—50-tooth sprocket for damp or snapped corn.

The rate of travel of the extension drag feeder chain is also governed by the size of sprocket on the feeder head shaft. The correct sprocket size at this location will insure the right amount of corn being fed into the feeder and sheller cylinder under various shelling conditions.

The delivery of corn into the feeder can be further slowed down by using 7199C—20-tooth sprocket on head shaft of drag feeder in place of the regular 15-tooth sprocket. The 20-tooth sprocket is available when ordered.

Various shelling conditions will determine the combination of sprockets to use.

The slip clutch on the cross shaft for driving the feeder should just be tight enough to drive feeder under normal load.