



43 CORN SHELLER



OPERATORS MANUAL 43 CORN SHELLER

OMC34 (01SEP63) English

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TO THE PURCHASER

You have purchased a sheller which is designed to give you many years of satisfactory service. Material and workmanship are the very best.

The object of this manual is to give you useful information about the operation and adjustment of your sheller, and to insure proper lubrication. Read your Manual carefully; proper operation and lubrication will result in longer life and better performance.

Where right- or left-hand is referred to, it is based on the position of the operator when standing at the hopper side of the sheller. Left-hand would be the pulley side and right the cob stacker side. The feed hopper would be at the rear and the fan discharge at the front.

Date Sheller was purchased..... 19..

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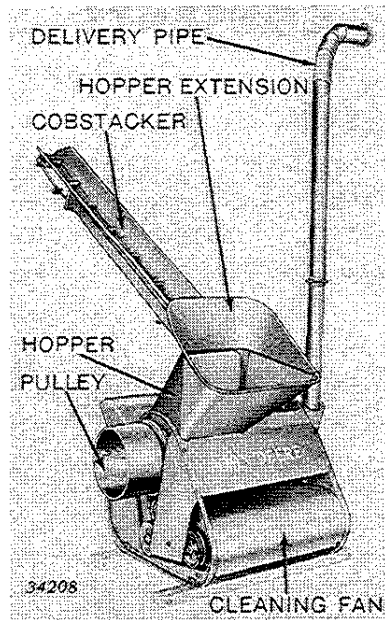
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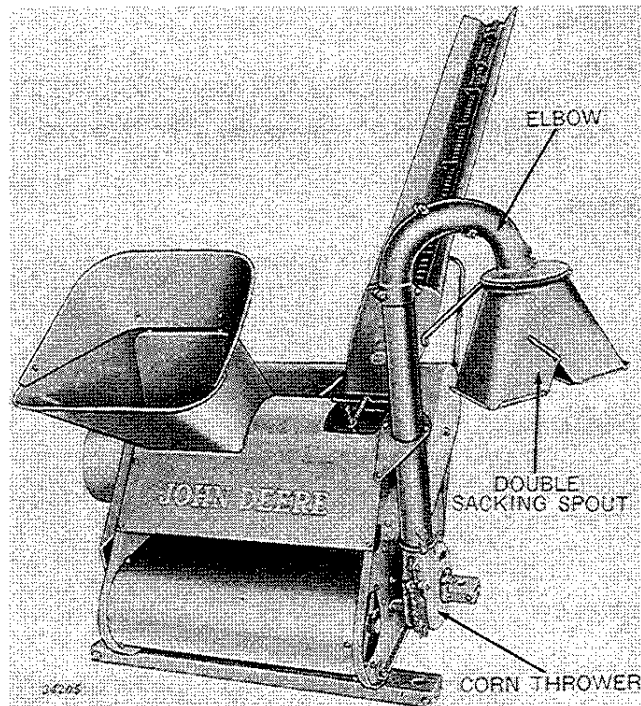
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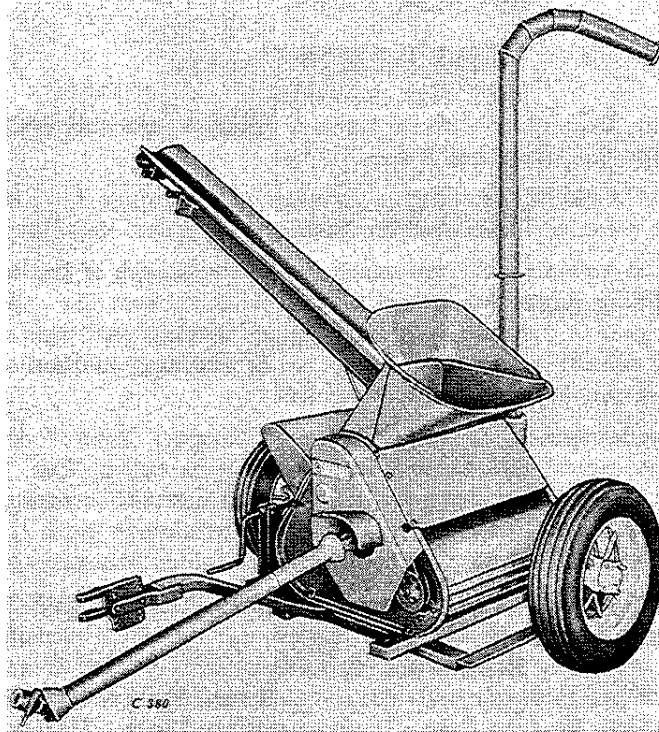
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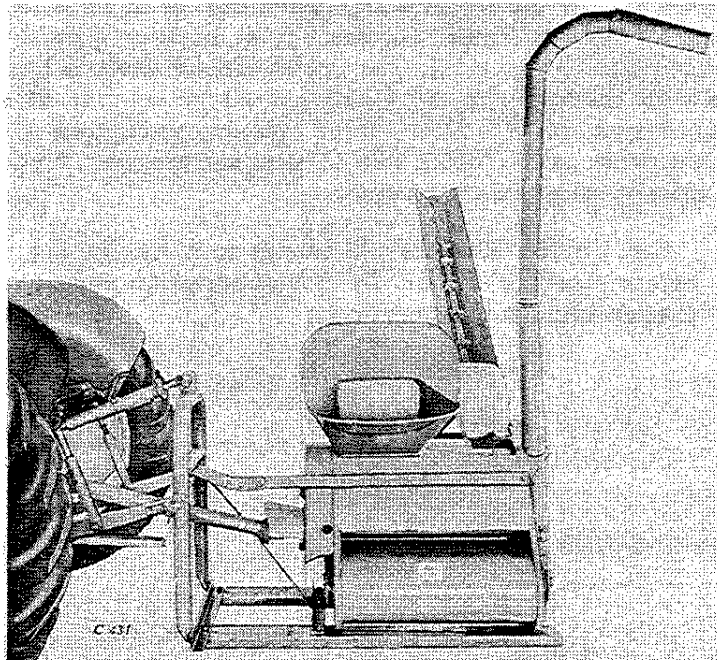
John Deere 43 Sheller with Delivery Pipe Attachment



John Deere 43 Sheller with Sacking Attachment



John Deere 43 Sheller with PTO Drive and Trailer



John Deere 43 Sheller with PTO Drive and Three-Point Attachment

DESCRIPTION

The John Deere 43 Sheller is designed to do all the corn shelling about the farm for the individual farmer.

The low height of the hopper provides easy feeding. The large screen area and a cleaning fan enable the sheller to do a fast clean job of shelling.

A grate is incorporated into nearly the entire length of the cob stacker, thus providing ample separation of shelled corn from the cobs. Flanged joints are used in the corn thrower housing castings and pipe sections for more rigid assembly and to provide a quick and easy method of changing direction of the discharge end of the pipe.

To provide mobility to the sheller a "Transport Trailer" or the hook-up for three-point hitch tractors are available as extras. The John Deere Transport Trailer is made of welded channel iron and is equipped with a cranking device to lower the frame to the ground or raise it for transporting. The trailer is equipped with regular 15-inch pneumatic tire wheels.

The 3-point hook-up is designed for John Deere "1010," "430," and "420" Tractors and various other makes with similarly designed 3-point hitch for attaching implements. A special mast bracket is available for John Deere Tractors equipped with an 800 Series Hitch. An implement hitch ball is available for John Deere Tractors equipped with a Universal 3-Point Hitch.

For operating the sheller as a stationary unit or in conjunction with either the "Transport Trailer" or the 3-point hook-up a power take-off drive is available as an extra. The power take-off drive is designed to operate with tractors with 1-3/8-inch splined power take-off shaft. A friction-disk-type clutch is incorporated into this power take-off drive to protect the sheller against quick start impacts and plugging. Ample shields are provided to safeguard the operator.

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.

SPECIFICATIONS

John Deere 43 Sheller with:

	Pulley Drive	P.T.O. Drive and Trailer	P.T.O. Drive and Three- Point Hitch
WIDTH			
Pulley to Corn Thrower.....	45"	.....	.....
End of Hitch to Corn Thrower.....	.....	79"	.....
Hitch Frame to Corn Thrower.....	.....	.....	58"
LENGTH			
End of Cob Stacker to Out- side Lip of Hopper.....	125"	.....	.....
End of Cob Stacker to Out- side Edge of Wheel.....	.....	132"	.....
End of Cob Stacker to Edge of Hopper.....	.....	.....	125"
HEIGHT			
Lower Lip of Hopper to Ground.....	34-1/2"	35-3/4"	34"
Wagon Pipe.....	93"	94-1/2"	92"
End of Cob Stacker to Ground.....	80"	81-1/2"	79"
Sacking Attachment (Excluding Cob Stacker)...	52"	.....	.....
GROUND CLEARANCE IN TRANSPORT POSITION...			
	.....	6-1/2"	11-1/2"
WEIGHTS			
Sheller with Pulley.....			397 lbs.
P.T.O. Drive Unit.....			76.5 lbs.
Trailer with Rubber Tires.....			251 lbs.
Three-Point Hitch.....			90 lbs.

Specifications and design subject to change without notice.

OPERATION

The John Deere 43 Sheller can be set either permanently or left on the skids provided. In either case, the sheller must be anchored solidly before power is applied. If the sheller is mounted on the trailer, it is not necessary to lower it to the ground before operation. It is necessary, however, that the sheller be lowered to the ground before operation when it is mounted on the rear of a tractor with a 3-point hitch.

SPEED

The proper speed for the John Deere 43 Sheller is 750 to 850 rpm.

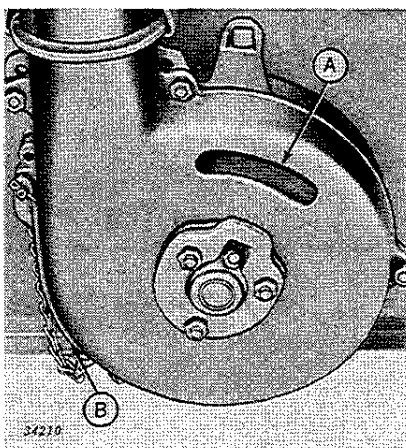
CAPACITY

The sheller capacity is from 100 to 250 bushels per hour. This capacity depends upon the speed of the sheller, condition and kind of corn, and the manner in which it is fed into the sheller.

This sheller is not designed to shell Southern snapped corn.

If the sheller is fed fast enough to keep the cylinder full, fewer cobs will be broken and a better shelling job will be done.

CORN THROWER



The speed of the sheller will determine how high the corn thrower will elevate the shelled corn.

At approximately 800 rpm the corn thrower will elevate the corn ten feet. At 1025 rpm the corn thrower will elevate the corn eighteen feet. This is the maximum height corn can be elevated with this sheller. At 1025 rpm the sheller operation will be normal except that some corn may be blown out by the blast fan.

Clean out any shelled corn through door "B" in the thrower case.

Be sure sheller is not operating before opening clean out door.

The corn thrower must always be empty when starting to shell. Examine the rubber facings on the fan blades occasionally to see that none are damaged or loose.

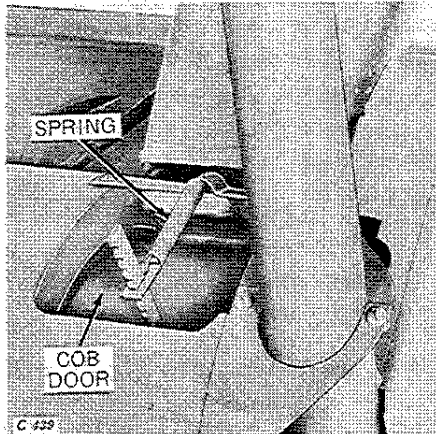
COB STACKER

Keep the cob stacker chain adjusted tight enough so that it will not allow the flights to climb over the cobs.

COB OUTLET DOOR

The purpose of the cob outlet door is to retain the ears in the shelling cage until all the corn has been removed from the cob.

The spring tension on the cob outlet door should be increased or decreased depending upon the condition of the corn. Just enough tension should be left on this door so that all the corn is shelled from the cob. If more tension is put on than necessary, the capacity of the sheller will be cut down.



BELT DRIVE

Regular, for Tractors: 12 x 6-inch pulley.

As approximately 15 horsepower is required to obtain maximum capacity from the sheller, tractor can be throttled down to get the proper speed with the 12-inch pulley on the sheller.

Three sizes of special pulleys can be supplied for use with engines, electric motors or tractors. These are 8 x 6-inch covered face, 10 x 6-inch covered face, and 14 x 6-inch not covered face.

POWER TAKE-OFF DRIVE

When equipped with the proper drive parts, sheller may be operated by tractors equipped with either 540 or 1000 rpm PTO, with the following modifications:

When the sheller is mounted on a trailer or in a stationary location, it may be driven with tractors equipped with internal drive gears or with external powershaft speed changer.

If the sheller is to be mounted on the tractor 3-point hitch and operated by tractor PTO, use a tractor with internal drive gears for the power take-off shaft and **not** an external powershaft speed changer.

Under no circumstances should a sheller equipped for 540 rpm PTO operation be driven by a tractor with 1000 rpm PTO, nor should a sheller equipped for 1000 rpm PTO operation be driven by a tractor with 540 rpm PTO.

See page 11 for converting from 540 to 1000 rpm PTO drive.

Never operate the sheller unless the spinner shields on telescoping tube and shaft are in place.

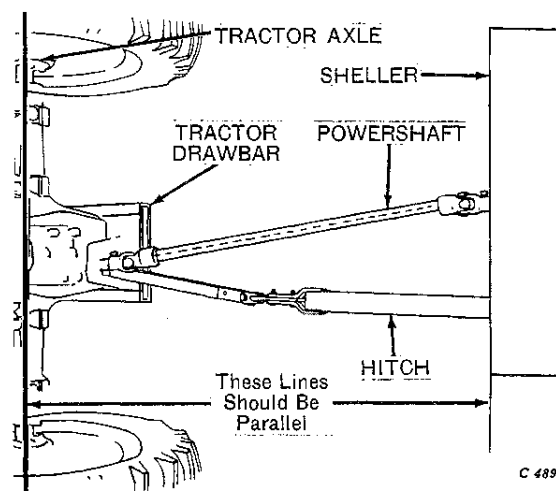
When operating sheller with PTO drive, most tractors should be run at full throttle to get the proper rpm on the sheller main shaft. Ford and Ferguson tractors must be throttled down to get the correct sheller speed.

DRIVE CHAIN

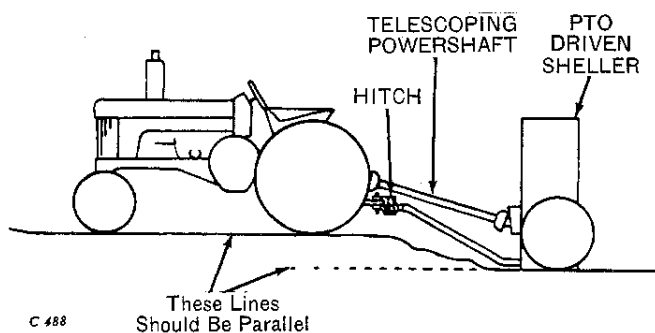
The drive chain for the power take-off drive may be tightened by loosening the bolts holding the shaft at both ends to the sheller body and moving the shaft assembly. Retighten nuts, being sure driven sprocket on end of shaft is square and aligned with main drive sprocket.

ALIGNING POWERSHAFT

Long life and smooth operation can be expected from the telescoping powershaft when it is used properly. When connecting tractor and sheller, always make sure the tractor axle and the driven side of the sheller are parallel.



When the tractor and sheller are on different levels, place them so that the center line of the tractor and base line of the sheller are parallel.



It is not necessary to keep the powershaft in a horizontal position during operation—only that it be kept as straight as possible.



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3-POINT-HITCH ATTACHMENT

When using the 3-point-hitch attachment, sheller should be installed on the 3-point-hitch frame using the combination of holes recommended on page 27 for various models of tractors.

JOHN DEERE "1010," "430," AND "420" TRACTORS.

If mounted on a John Deere "1010," "430," or "420" Tractor, use minimum front end weighting of two side weights. If used with a John Deere "430" or "420" Standard Tractor, use at least one inner weight.

The tractor lift links must be attached to the inner holes in the rock-shaft lift arms.

The Dual Touch-o-matic cylinders must be paralleled. Refer to your tractor operator's manual.

Refer to your tractor operator's manual for instructions covering tire inflation pressures.

JOHN DEERE TRACTORS EQUIPPED WITH A UNIVERSAL OR AN 800 SERIES 3-POINT HITCH.

Refer to your tractor and hitch operator's manuals for instructions on tire inflation, weighting, and hitch adjustments.

TRANSPORT TRAILER

With the transport trailer and power take-off drive, the tractor drawbar should be put in the extended position.

When transporting sheller on trailer, be careful in making sharp turns so as not to damage shields or universal joint shafts.

TRANSPORTING

When transporting the sheller on a public road at night or during other periods of low visibility, use a warning lamp on the extreme left-hand side of the tractor.

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