

30 Series Potato Digger



OPERATORS MANUAL

30 Series
Potato Digger

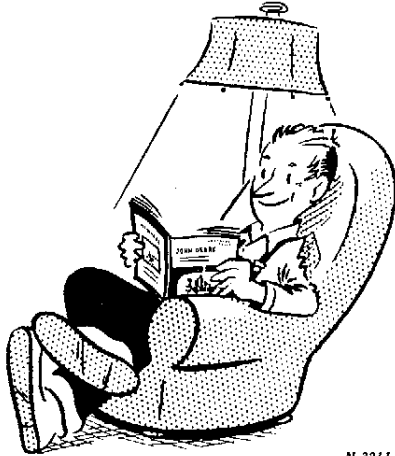
OMN159074 K5 English

OMN159074 K5

LITHO IN U.S.A.
ENGLISH



To the purchaser



This manual contains valuable information about your new John Deere 30 Series Potato Digger. It has been carefully prepared and illustrated. In it you will find instructions and helpful suggestions for operating, adjusting, attaching, transporting, lubricating and servicing your new Potato Digger. You will also find instructions for adapting your potato digger to work properly in all types of field conditions.

Your new digger was built to rigid manufacturing standards. Material and workmanship are the best. Precision production methods and ac-

curately controlled heat-treating assure maximum strength and long life for every part.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy implement, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Give your potato digger proper attention during slack periods. By doing this, it will always be ready, without delay, when you need it.

Sometime in the future, your potato digger may need new parts to replace those that are worn or broken. If so, go to your John Deere dealer. Provide him with the model number of your potato digger and the date purchased. Record this information in the space provided below, so it will be readily accessible when it is needed.

Location references

Right-hand and left-hand references are determined by standing at the rear of the potato digger and facing in the direction of travel.

JOHN DEERE 30 SERIES POTATO DIGGER

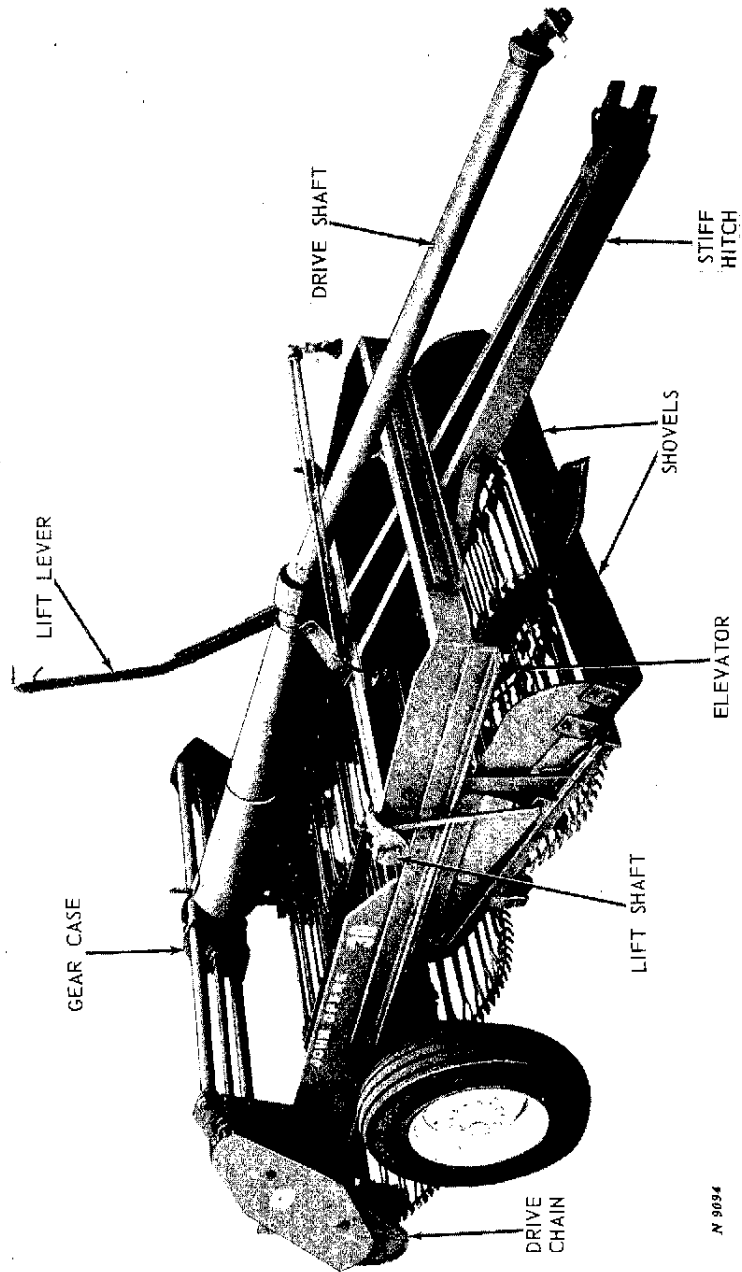
Potato Digger Model No.

Date Purchased, 19

(To be filled in by Purchaser)

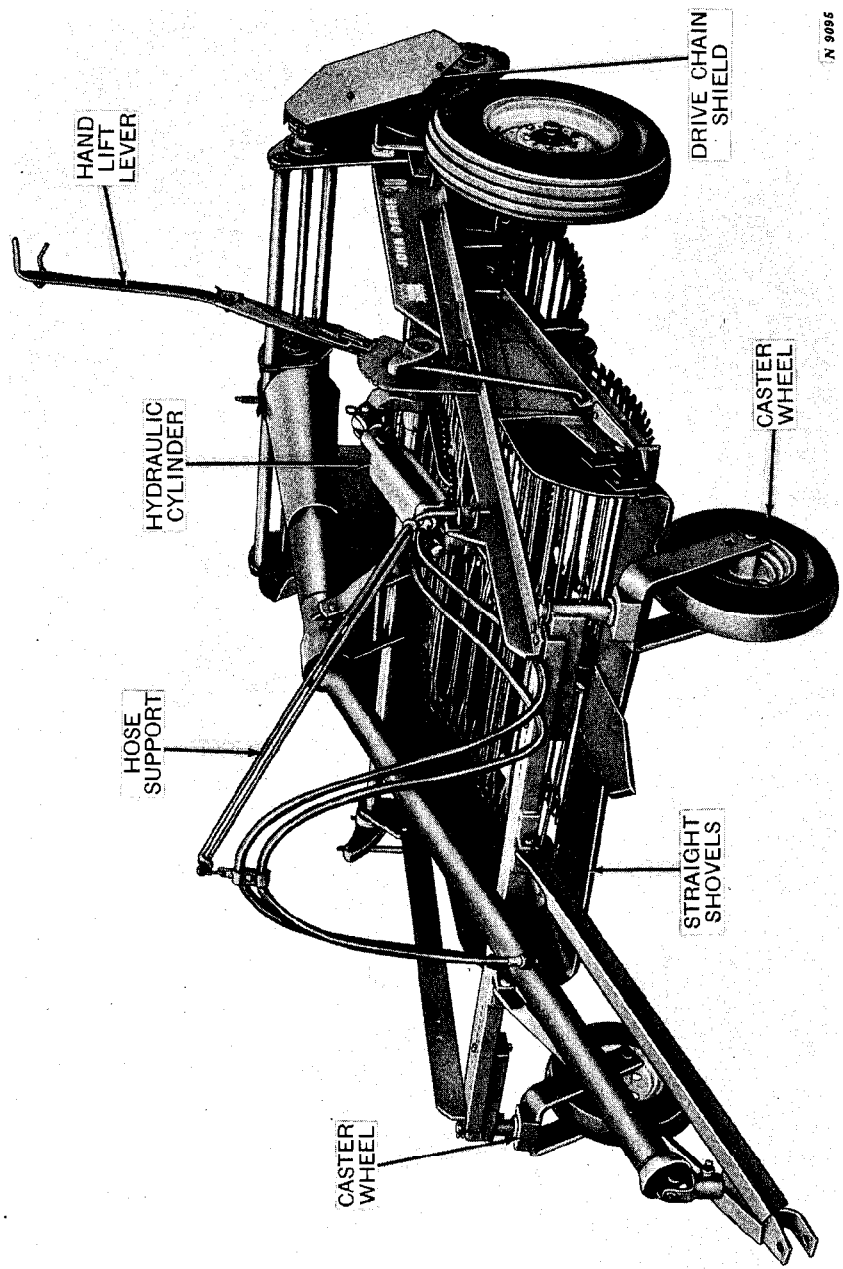
Contents

	Page		Page
SPECIFICATIONS.....	5-6	Carrier Wheels.....	15-16
OPERATION	7-23	Adjusting 1000 rpm Drive Chain	16
Preparing Potato Digger for Use.....	7	Foretruck with Rubber Tires	17
Hitch Clevis	7	Foretruck with Cast-Iron Rollers.....	18
Tractor Drawbar.....	7	Adjustable Wheel.....	19
Attaching Potato Digger to Tractor.....	8	18-Inch Potato Digger Bed Extension	20
Rod Deflectors	8	Safety Suggestions	21
Hand Lift Lever.....	8	Maintenance Suggestions.	22
Depth of Operation.....	9	Before and After Storage	23
Shovels	9		
Elevator Chain	10	LUBRICATION.....	24-26
Separation of Dirt from Potatoes	11-12	SPECIAL EQUIPMENT ...	27-29
Shovel Depth	11	Rollers and Agitators...	27
Front Elevator.....	11	Pointed Shovels.....	28
Agitation.....	12	Agitator Control Shaft, ..	28
Elevator Speed.....	12	1000 rpm Operation.....	28
Torque Limit Clutch.	13	Colorado Special Potato Digger	29
Elevator Drive Chains ..	13		
Operating Digger Chain Inside Out	14		



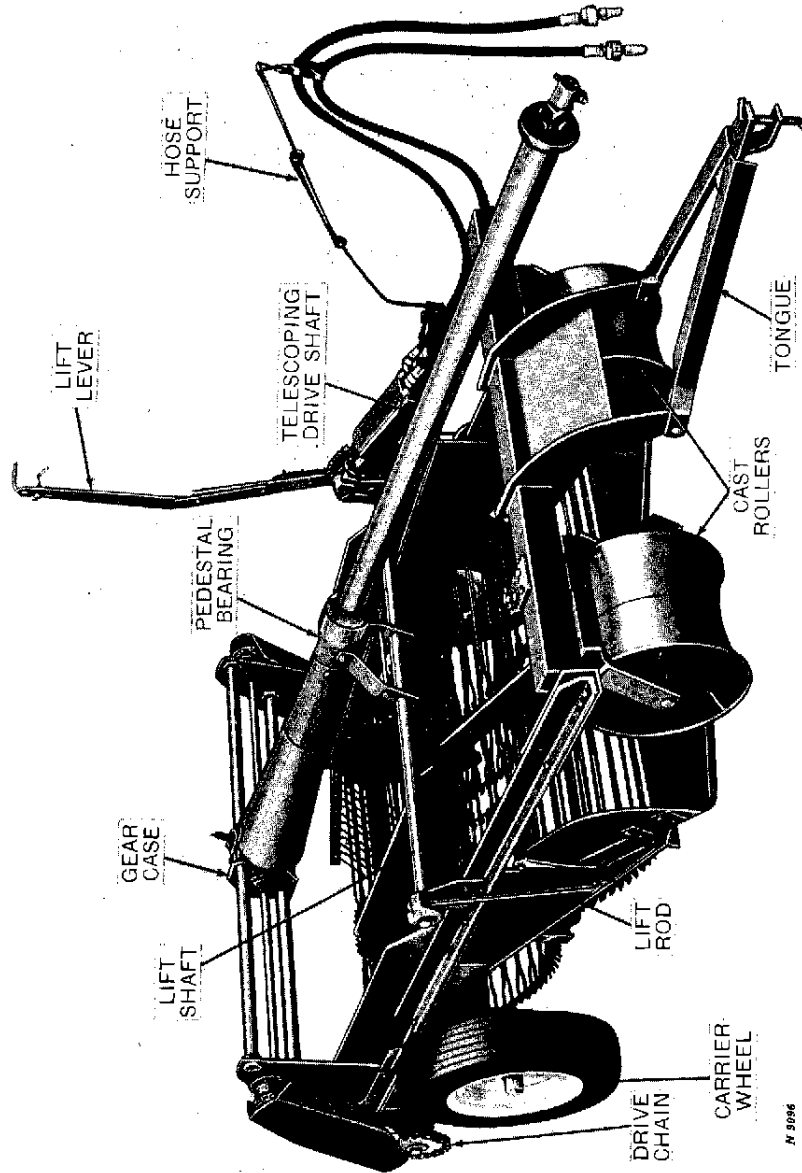
N 9094

John Deere 31 Potato Digger with Stiff Hitch



N 9055

John Deere 32 Potato Digger with Caster Wheels



John Deere 33 Potato Digger with Cast Rollers

Specifications

Series	30 Series consisting of three models
Models	31 Digger with stiff hitch
	32 Digger with caster wheels; wheel size - 4.00 x 8-inch, smooth*
	33 Digger with cast rollers (made of cast iron)*
Capacity	Two-row
Row width	32-, 34-, 36-, and most 38-inch rows
Power requirement	John Deere 3010 Tractor, its equivalent or larger. In some light soil areas, it is possible to use a 2010 Tractor.
Power lift	Front section operated by hydraulic con- trol lever on tractor
Tire size	6.70 x 15-4-ply implement tire
Wheel tread	Angled position - 65 inches Vertical inner position- 72 inches Vertical outer position- 76 inches
Over-all length with stiff hitch (31 digger)	14 feet, 8 inches
Over-all length with foretruck (32 and 33 digger)	16 feet
Maximum over-all width	7 feet, 1-1/2 inches with 76-inch tread 6 feet, 9-1/2 inches with 72-inch tread
Shovels	Straight, 3 piece (regular equipment) Pointed, 3 piece (optional equipment)
Shovel width	68 inches (over-all)
Bed width	59 inches
Potato chain	Consists of 129 links, 29 inches long. 64 links project up, and 65 links project down.
Length of chain	Over-all length each side 16.8 feet
Weight	31 Potato Digger - 2,037 pounds (approx- imately) 32 Potato Digger - 2,065 pounds (approx- imately) 33 Potato Digger - 2,267 pounds (approx- imately)
Torque limit clutch	Adjustable friction type
Cone rollers	White iron

**Should be used with Crawler Type Tractor*

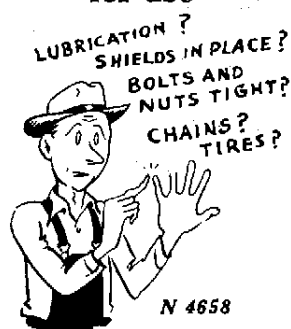
6 specifications

Agitators	Triangular type (regular on front section)
	Short oblong (regular on bed section)
	Long oblong (special equipment for bed section)
	High frequency smooth roller (special equipment for bed section)
Optional equipment	540 or 1000 rpm drive parts
	Colorado special with 2-1/8-inch apron chain and oblong shaker sprockets instead of regular
Special equipment	28- or 37-tooth elevator drive sprockets
	Agitator control shaft
	Short oblong shaker sprockets
	Long oblong shaker sprockets
	High frequency agitator
	Cone rollers (required when running potato chain inverted)
	Drive sprockets—23, 28, 33, 37, or 42 tooth (28-tooth regular)
	18-inch bed extension
	Adjustable wheel (tractor must be equipped with a dual hydraulic system)

(Specification and design subject to change without notice.)

Operation

Preparing potato digger for use

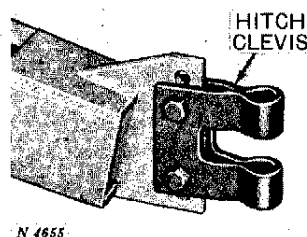


Before starting potato digger in the field, be sure you are thoroughly familiar with the function of each working unit. A careful study of the adjustments and what they will accomplish under the wide variety of field conditions will allow you to reap the many benefits that a 30 Series Potato Digger can provide.

Careful inspection of the potato digger before starting work each day will prevent needless delays and break-downs in the field. Make the following checks and adjustments.

1. Perform the lubrication services (pages 24 through 26).
2. Inspect all drive chains for proper tension. Tighten chains only enough to prevent links from climbing sprocket teeth.
3. Check for loose bolts and connections.
4. Check tire inflation. The correct air pressure is 24 psi. If you have a 32 Potato Digger, the tire inflation pressure of the foretruck wheels is 40 psi.

Hitch clevis



The bed of the potato digger should be level when in the operating position. Set the hitch clevis to maintain this level position when the potato digger is hitched to the tractor.

The center position is shown above. Use whichever of the three settings is necessary to keep the digger bed level.

Tractor drawbar

The tractor drawbar should be secured in a center position, parallel to the PTO shaft, with the offset down.

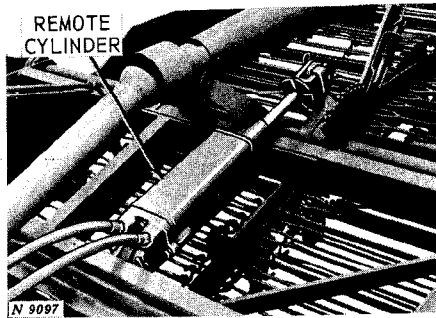
Adjust the length of the drawbar so the end hole is 14 inches from the end of the powershaft, if digger is to be operated by a 540 rpm PTO shaft or 16 inches if digger is to be operated by a 1000 rpm PTO shaft.

SAFETY FIRST

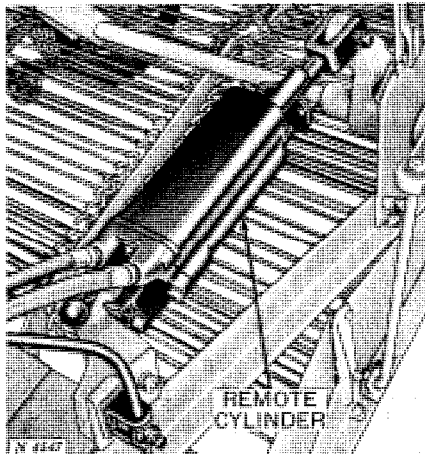
Every operator must cooperate fully in the shielding of rotating Powershafts—an exposed Powershaft can be deadly.

8 operation

Attaching potato digger to tractor



31 Potato Digger



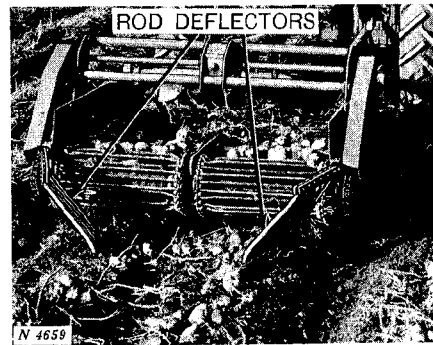
32 and 33 Potato Digger

Attach the digger to the tractor drawbar. Connect the drive shaft to the tractor PTO.

Then attach the hydraulic remote cylinder to the front support and to the hydraulic lift shaft arm, and secure with the spring locking pins.

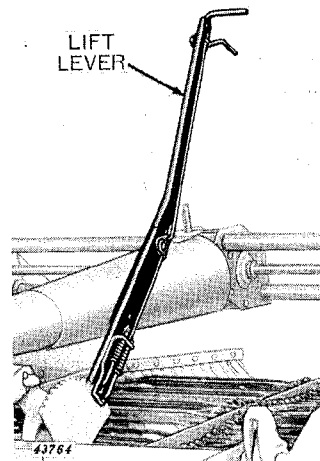
Attach the hoses to the hose support rod and connect them to the tractor as instructed in your tractor operator's manual.

Rod deflectors



When starting the digger in a field, always check to make sure that the rod deflectors are in the "down" position as shown above. The rod deflectors will guide the potatoes into a single windrow.

Hand lift lever



After the desired digger depth has been determined, adjust the hand lift lever on the digger to that position. This will assure a constant shovel depth that can be easily set by operation of the remote hydraulic control lever on the tractor.

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com