

30 Series Two-Row Potato Digger and Stone Picker Attachment



JOHN DEERE

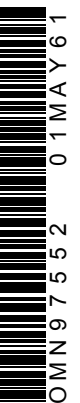
OPERATORS MANUAL

30 Series Two-Row Potato Digger and
Stone Picker Attachment

OMN97552 (01MAY61) English

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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

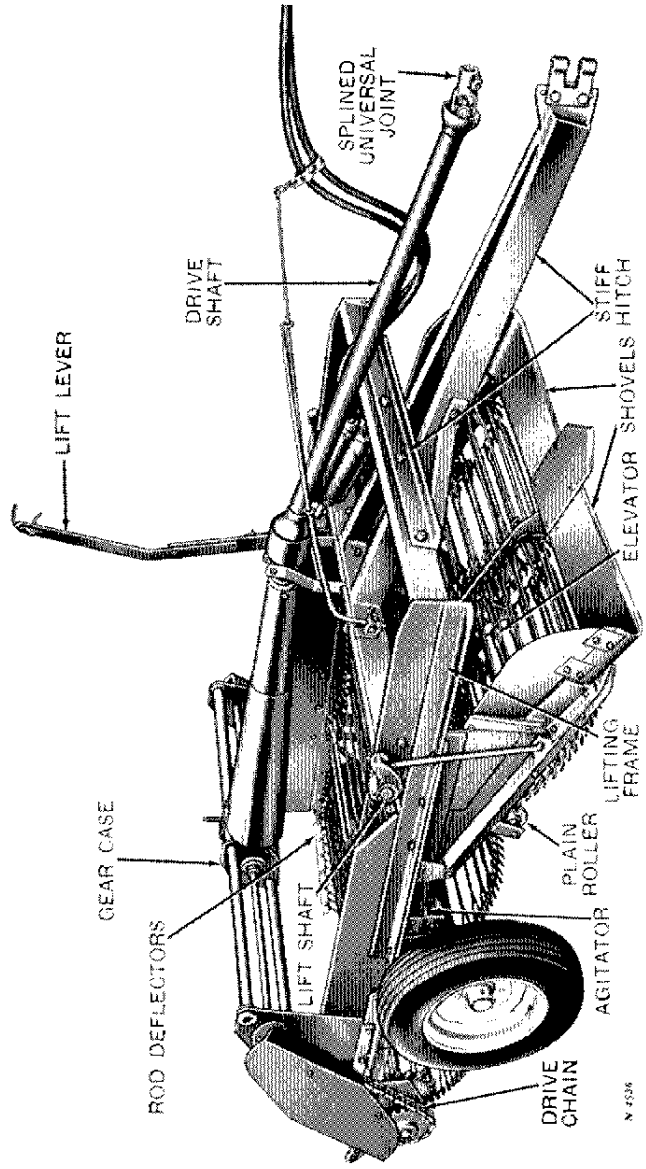
Potato Digger Model No.

Date Purchased, 19

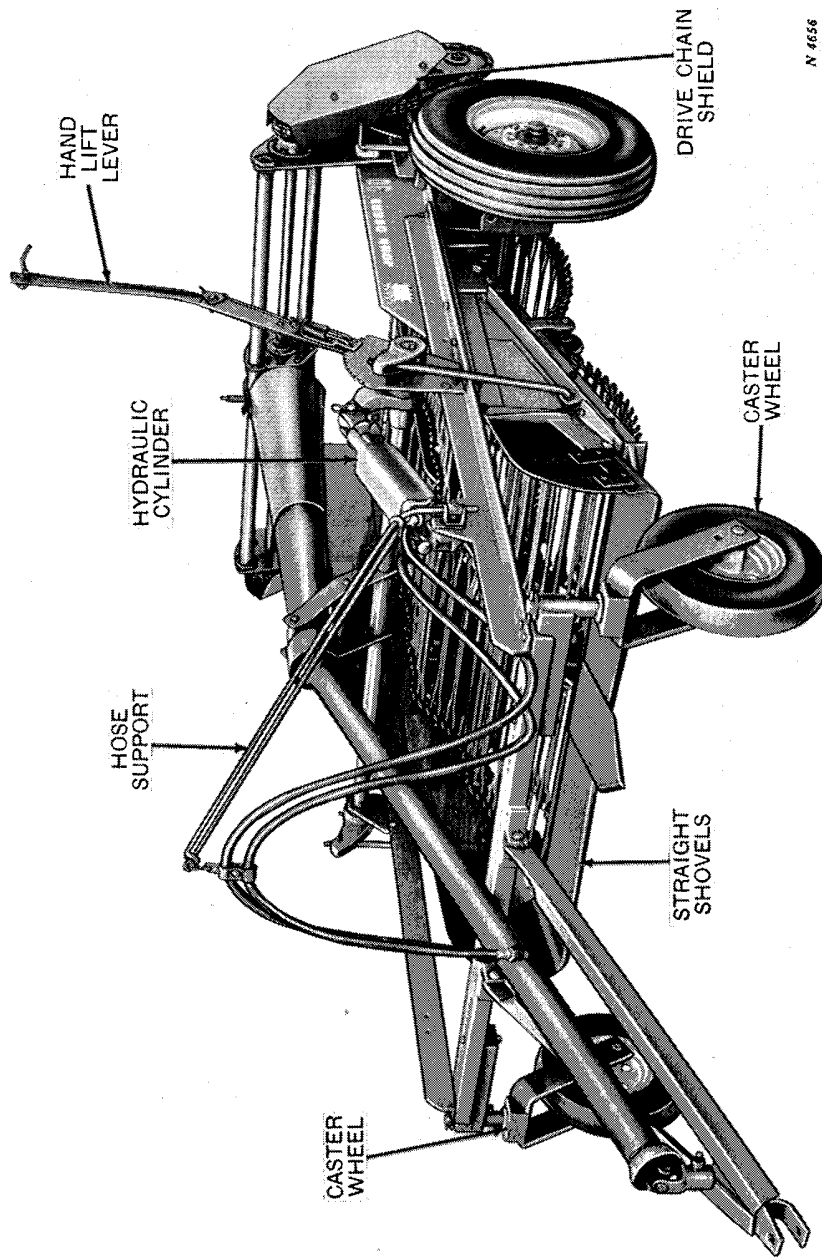
(To be filled in by Purchaser)

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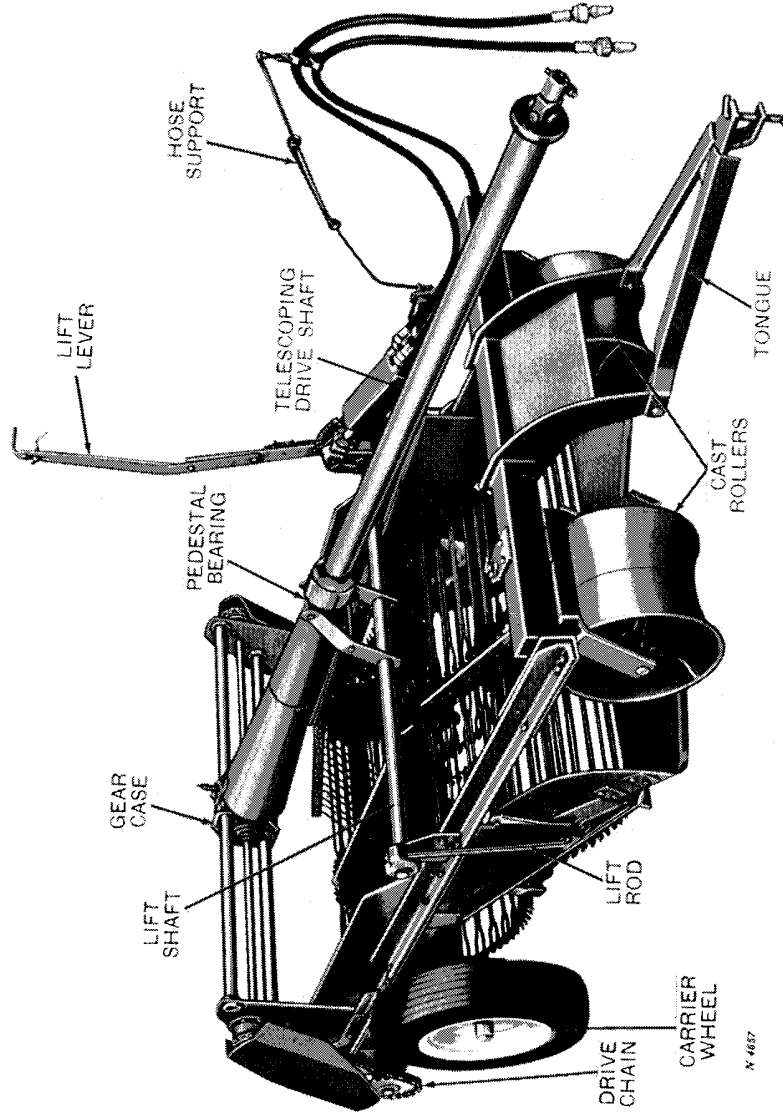
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John Deere 31 Potato Digger with Stiff Hitch

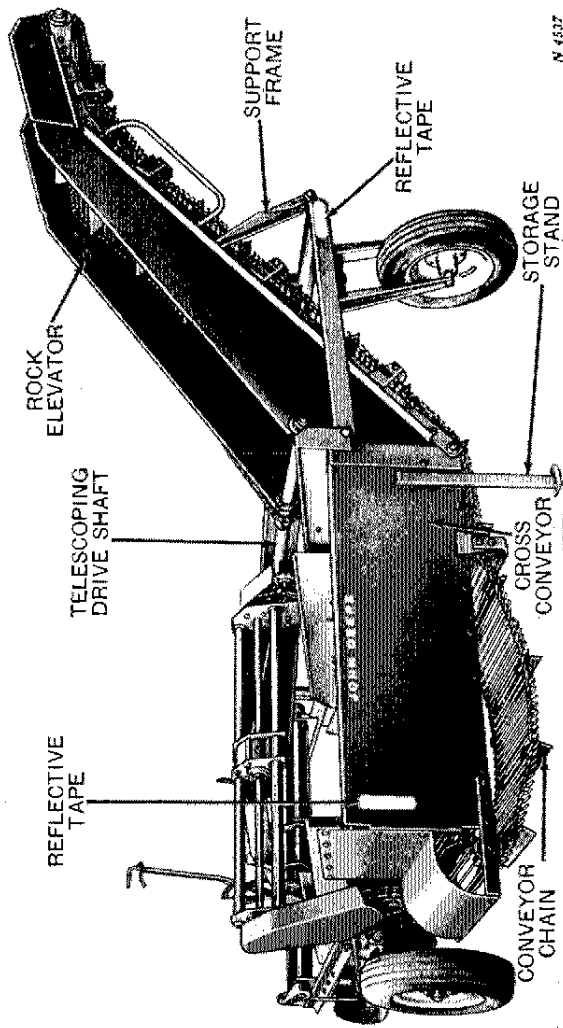


John Deere 32 Potato Digger with Caster Wheels



John Deere 33 Potato Digger with Cast Rollers

X 4637



John Deere Stone Picker Attachment on 31 Potato Digger

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	65 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*

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 22- or 29-tooth elevator drive sprockets
Special equipment	Agitator control shaft Short oblong shaker sprockets Long oblong shaker sprockets High frequency agitator Cone rollers (required when running potato chain inverted) Drive sprockets - 18, 26, 29, or 33* tooth (22-tooth regular) Stone picker attachment

Stone picker attachment

Potato digger required	31 Potato Digger Only
Capacity	Up to 350 tons per day
Size of stones handled	1-1/2-inch to 8-inch diameter
Working depth	six inches
Shovel width	65 inches
Tire size	5.90 x 15-inch
Picker weight	1,530 pounds (approximately)
Dimensions of digger with stone picker attachment	
Maximum height	8 feet, 7 inches
Height with elevator extension removed	7 feet, 3 inches
Maximum width	14 feet, 2 inches
Width with elevator extension removed	12 feet, 10 inches
Length	15 feet, 6 inches
Flights	3 inches high, 13-3/4 inches apart
Speed of elevator chain	257 feet per minute
Width of elevator	24 inches

*The 33 tooth drive sprocket cannot be used with the stone picker attachment.

(Specification and design subject to change without notice.)

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