

John Deere No. 62 Hay Chopper & No. 64 Ensilage Harvester



JOHN DEERE

OPERATORS MANUAL

John Deere No. 62 Hay Chopper & No.
64 Ensilage Harvester

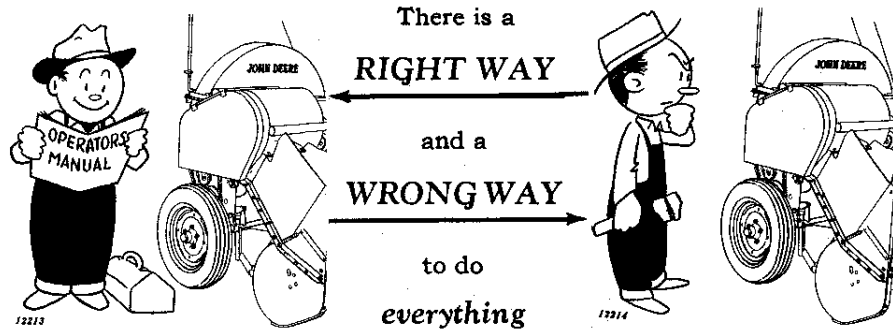
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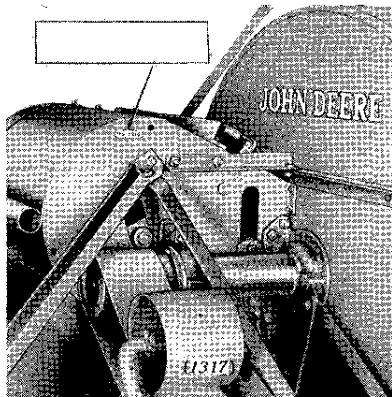
INTRODUCTION



That is the reason we ask you to keep this manual in a handy place to be used as a guide whenever any questions arise about operating and servicing your new John Deere No. 62 Hay Chopper and No. 64 Ensilage Harvester the **RIGHT WAY**. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

If you need additional information, or if your machine requires special servicing, see your John Deere dealer. He has all the facilities required to keep your machine in A-1 condition. He will be glad to serve you.

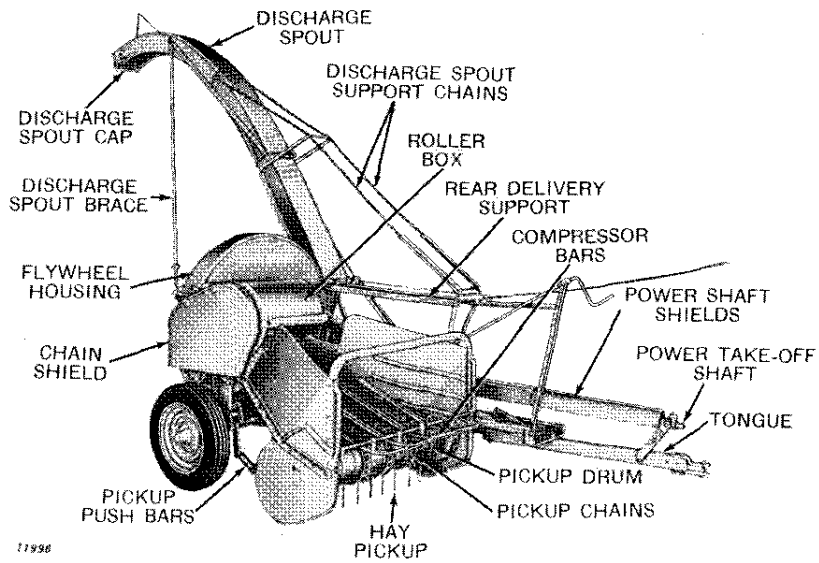
When in need of parts, either to replace worn parts or to make emergency repairs, see your local John Deere dealer; he and the John Deere branch house behind him are equipped to render the type of service that will keep your machine in good working condition during its long life.



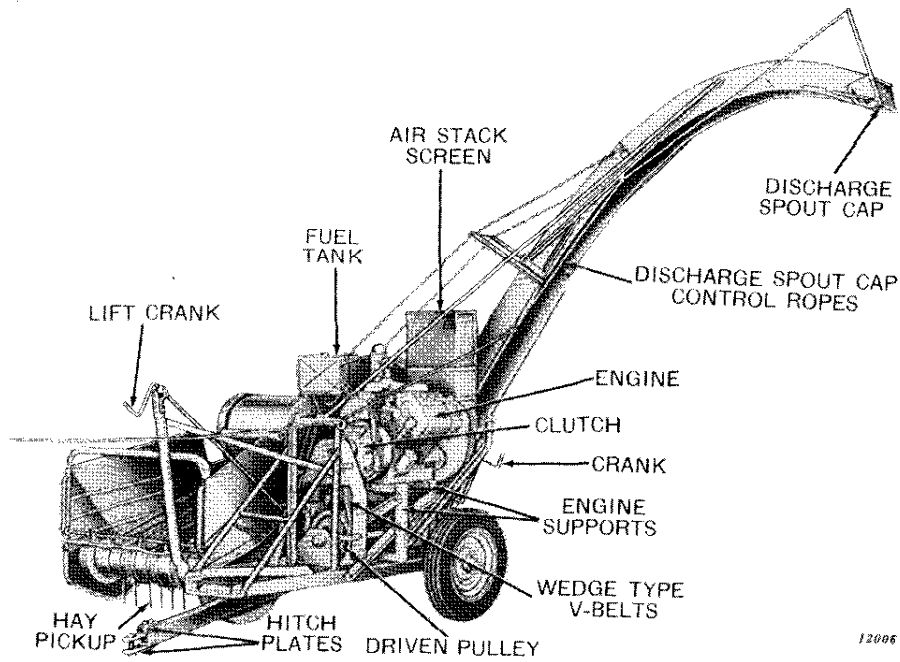
The serial number of your chopper is located on the top left side of the roller box. (Record it in the space at left. Refer to it when parts are ordered, to be assured of the right part.)

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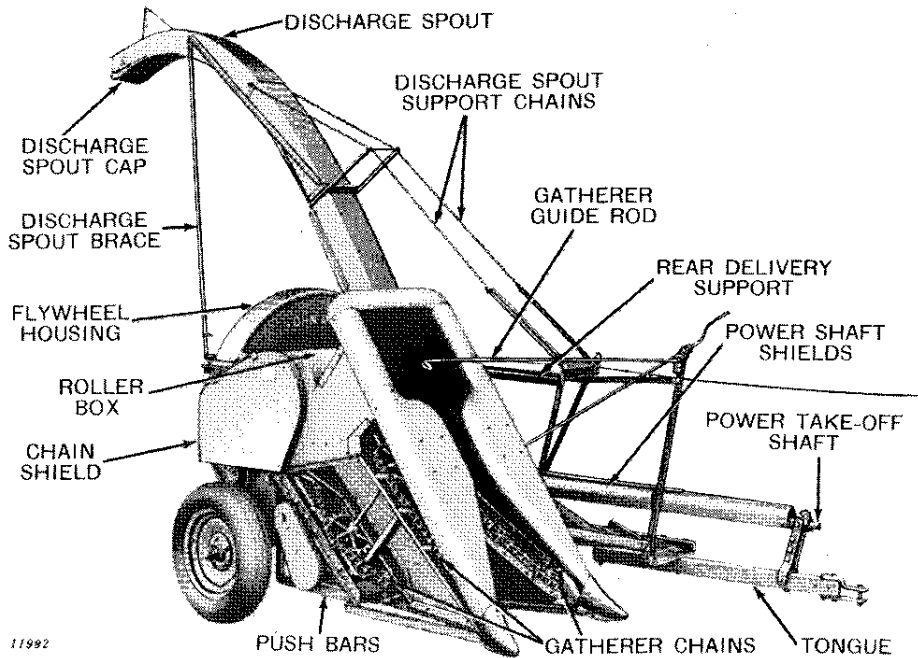
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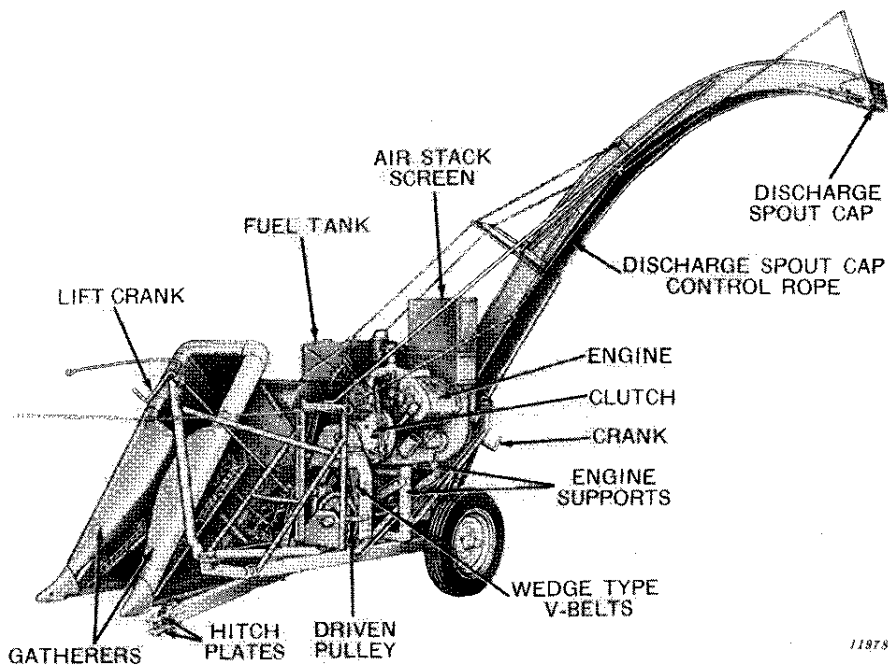
**Figure 1—Right-Hand View of No. 62 Hay Chopper
Power Take-Off with Rear Delivery**



**Figure 2—Left-Hand view of No. 62 Hay Chopper
Engine Mounted with Side Delivery**



**Figure 3—Right-Hand View of No. 64 Ensilage Harvester
Power Take-Off with Rear Delivery**



**Figure 4—Left Hand View of No. 64 Ensilage Harvester
Engine Mounted with Side Delivery**

SPECIFICATIONS AND DATA

Width in Transport Position.....	8 feet
Height in Transport Position.....	93"
Over-All Length.....	112"
Tire Size.....	5.50 x 16
Tire Pressure.....	32 lbs.
Number of Knives.....	Four
Type of Cutter.....	Flywheel
Length of Cuts Available.....	Adjustable 1/2 to 3-1/2" Inc.
Pickup Width (62 only).....	50"
Tons per Hour (62).....	8 to 12 Tons per hr. Green Hay 3 to 5 Tons per hr. Dry Hay
(64).....	10 to 15 Tons per hr. in Corn, Cane and Hygeria
Size of Tractor recommended.....	See Page 5
Types of Material which can be cut (62).....	Common leguminous crops and Straw
(64).....	Corn, Cane and Hygeria
Weight of Machine (62).....	2720 Engine 2075 P.T.O.
(64).....	2981 Engine 2334 P.T.O.
Speed of Tractor Power Shaft.....	536 R.P.M. ASAE Std.
Speed of Rotating Knives.....	8-1/2" Pulley..... 772 R.P.M.
(Optional) 7-1/2" Pulley.....	681 R.P.M.
Bearings.....	Gear Box, Rotating Knife Support Shaft, and Wheels —Timken Bearings. Roller Box Drive Shaft and Upper Double Drive Sprocket Needle Bearings. Pickup, Power Shaft and remaining Drive Shafts— Oil Impregnated Bronze Bearings.

NOTE: Right- and left-hand sides referred to in this manual are determined from a position at the rear of the machine facing in the direction of travel.

(It is John Deere policy to improve our machines at every opportunity. Consequently it may be necessary to change design without notice.)

OPERATION

DESCRIPTION

The No. 62 Hay Chopper consists of a pickup, and a chopping mechanism which is described below. The pickup elevates the side-raked windrow and delivers the material to the chopping mechanism of the machine.

The No. 64 Ensilage Harvester consists of a row-crop cutting and gathering-mechanism and the same chopping mechanism mentioned above. The row-crop mechanism cuts the standing material and delivers it to the chopping mechanism.

The chopping mechanism of both the No. 62 and No. 64 machines consists of a set of feed rolls which receives the material and delivers it to a rotating flywheel at a controlled rate. The flywheel is equipped with four knives and four blower paddles. The knives shear the material off in regular lengths against a stationary shear bar, and the cut material is blown from the machine by the paddles on the knife arm thru a discharge spout to a receiving vehicle at the side or rear of the machine.

It is possible to convert the No. 62 Hay Chopper into the No. 64 Ensilage Harvester by replacing the Hay Pickup with the Ensilage Harvesting Attachment. In the same manner, a No. 64 Ensilage Harvester can be converted into a No. 62 Hay Chopper.

The No. 62 Hay Chopper can be used with the following John Deere tractors or with tractors of similar power:

"B", "BN", "BNH", "BW" and "BWH" tractors with serial No. 96,000 and up.

"A", "AN", "ANH", "AW" and "AWH" tractors with serial No. 421,329 and up.

"AR" and "AO" tractors with serial No. 241,244 and up.

"G" tractors.

"D" tractors with serial No. 31,280 and up.

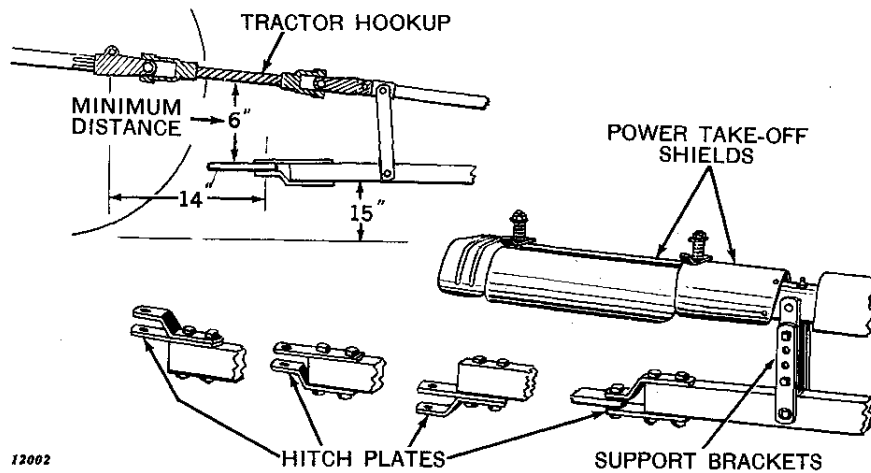
The No. 64 Ensilage Harvester can be used with the following John Deere tractors or with tractors of similar power:

"A", "AN", "AW" (Regular and 96-inch tread equipment), "ANH" and "AWH" tractors with serial No. 488,000 and up.

"AR" and "AO" tractors with serial No. 260,000 and up.

"G" tractors.

"D" tractors with serial No. 109,944 and up.

HOOK UP INSTRUCTIONS*Figure 5*

Attach your chopper to the tractor by following the instructions below.

1. When attaching either of these machines to any of the older tractors, the tractor must first be converted to comply with ASAE standards. This can be done by purchasing the proper conversion bundle from the dealer that handles your make of tractor.
2. Secure the proper tractor hookup bundle to match the spline on your tractor. See Page 17.
3. When attaching tongue to tractor drawbar, keep the power take-off shaft as straight as possible and have the front end of the chopper tongue 15" from the ground. These conditions can be met by adjusting the hitch plates as shown in Figure 5.
4. Be sure the power take-off shields are properly placed.
5. Check the engine speed of the tractor to be sure it is running according to the manufacturer's recommendations.
6. The tractor tire inflation pressures specified in the Tractor Operator's Manual will apply.

GENERAL OPERATING INSTRUCTIONS

To insure the best possible results from your chopper make sure it has been properly assembled. Go over the entire machine, being sure shields, braces, chains, etc., are properly attached and adjustments made as directed. It is important that all nuts, pins and keys are tight and cotters are spread.

IMPORTANT: Make sure the movable feed roll operates up and down freely, and the slide plate guides are thoroughly greased before starting machine. Grease all moving parts and check oil in gear box as shown on Lubrication Chart, Pages 13 thru 16.

Be sure the wood block has been removed from the flywheel. This block is used to insure greater safety in shipping and setting up.

Check rotating knife for proper clearance (Page 26). The knives can be sharpened on the knife grinder attachment when they have become dull from use. It may be necessary to sharpen them daily to produce well-cut material and to keep the power requirements of the machine at a minimum.

A discharge spout cover and a discharge spout hood are available for handling dry materials in windy conditions.

A short discharge spout may be obtained to deliver the material into the front end of an enclosed wagon or trailer pulled at the rear.

The roller box drive chain should be kept clean and flexible at all times.

Frequently check the bolts through the upper feed roll paddles and casting to make sure they are tight.

CAUTION: Be sure the power shaft guards are all in place.

As regularly furnished, the Hay Chopper is provided with feed roll drive sprockets which provide a cut approximately one and one-half inches long. Special sprockets are available to permit varying the length of cut from approximately one-half to three and one-half inches inclusive. The Ensilage Harvester is furnished with sprockets which provide a cut of approximately one-half inch. (See Pages 28 and 29).

The hitch may be shifted from operating to transport position by removing one bolt. (See Page 14). In transport position the chopper trails the tractor giving an overall width of approximately eight feet.

A new machine should be operated at half speed for 30 minutes to loosen up the bearings and to be sure they are not heating. After the first trial run, the tractor should be operated at full throttle in low gear.

For engine run-in instructions see Operators Manual on VP-4 Engine.

OPERATION—No. 62 HAY CHOPPER

Before starting your new John Deere No. 62 Hay Chopper in the field it is important to see that the pickup has the correct amount of pressure on the ground. (See Page 32). The pickup is spring balanced and can be raised and lowered with the lift crank.

When raking hay for chopping, do not make the windrows too large. In average hay that runs a ton to a ton and a half per acre, a 7-foot swath makes the maximum size windrow. In heavier hay or green hay, rake less hay into the windrow. Keep the windrow as straight and even as possible.

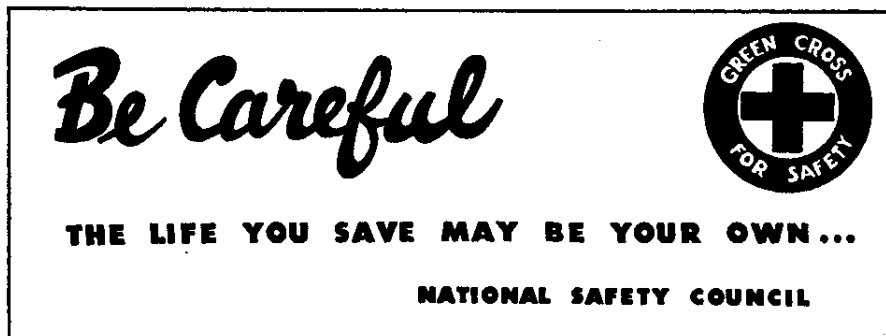
Until the operator becomes familiar with the operation and capacity of the machine, a small windrow should be used and then gradually increase the size of the windrow to the capacity of the machine.

In side raking, rake the windrow as straight and even as possible.

A small size windrow will insure continuous operation with no clogging.

When possible, travel in the same direction that the mower and side rake traveled.

The John Deere No. 62 Chopper will handle either green or dry material.



OPERATION—No. 64 ENSILAGE HARVESTER

Before starting the No. 64 Field Ensilage Harvester in the field, see that the machine runs freely and that the row-crop unit can be raised and lowered by the crank provided. It may be necessary to tighten the pick-up lift springs near the right end of the axle under the roller box. (See Page 33). The V-belt drive should be tight enough to prevent slippage.

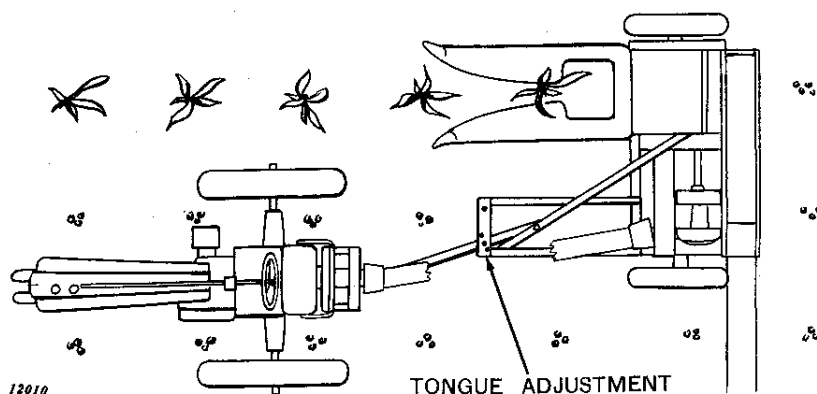


Figure 6

Adjust chopper tongue so the gatherers are centered on a row when the tractor straddles the adjoining two rows. Three adjusting holes are provided in the tongue support. (See Figure 6).

After the machine is in position at the end of the row, run the Harvester with the tractor stationary by operating the power take-off of the tractor. The flywheel of the chopper should be allowed to turn up to full speed. Disengage clutch, shift the tractor into low gear and engage the clutch. Disengage the power shaft when turning at ends of rows.

It is important that the operator run the gatherers centered on the row as nearly as possible at all times to do a good job of cutting. This also facilitates the flow of the material thru the machine.

This machine is prepared for transporting in the same manner as the No. 62 described on Page 14.

TRANSPORTING

SIDE DELIVERY

1. Raise the pickup or row crop unit off the ground with the lift crank. See Figure 7.
2. Remove bolt from the tongue and tongue support. Swing tongue over to right side of tongue support and replace bolt.
3. Remove discharge spout brace and wire to chopper.
4. Remove the two carriage bolts from the spout and the support rod from the chains. See inset figure 7.
5. Place discharge spout in transport position and replace support rod in support and spout as shown below. Figure 7.

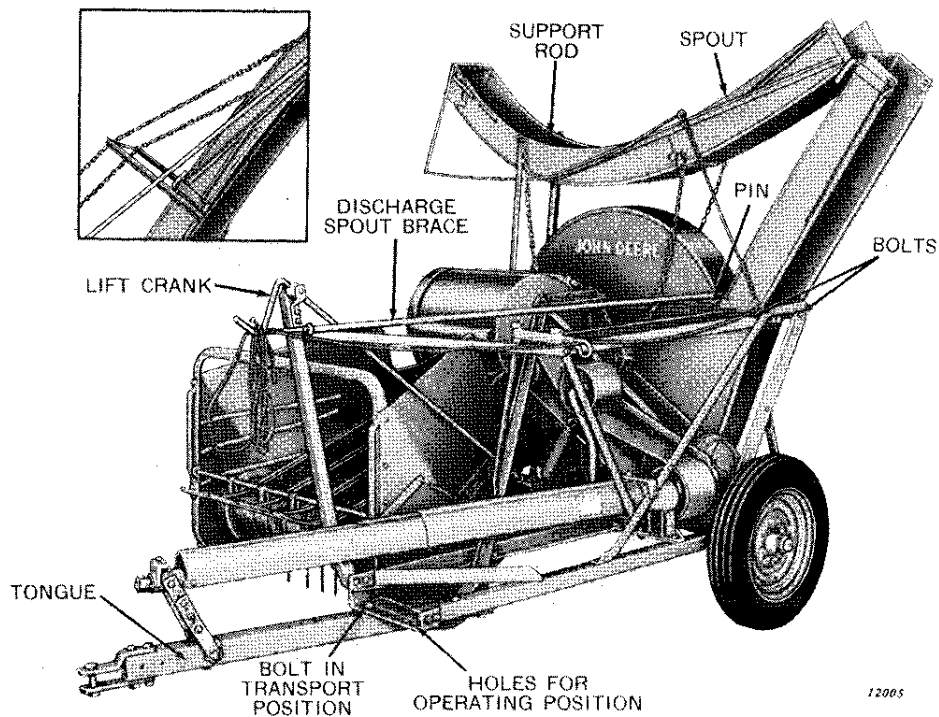


Figure 7

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