

640 SIDE-DELIVERY RAKE



OPERATORS MANUAL 640 SIDE-DELIVERY RAKE

OME36545 E4 English

JOHN DEERE OTTUMWA WORKS
OME36545 E4

LITHO IN THE U.S.A. (REVISED)
ENGLISH






To the Purchaser

Your new rake was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need - whether it is operation or lubrication. Read the "Table of Contents" to learn where each section is located. Use the alphabetical index for fast reference.

In addition to the equipment furnished with your rake, attachments are available to help you do a better job in special crop conditions. These are described in the attachment section of this manual and can be purchased from your John Deere dealer.

 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

"Right-hand" and "Left-hand" sides are determined by facing in the direction the rake will travel when in use.

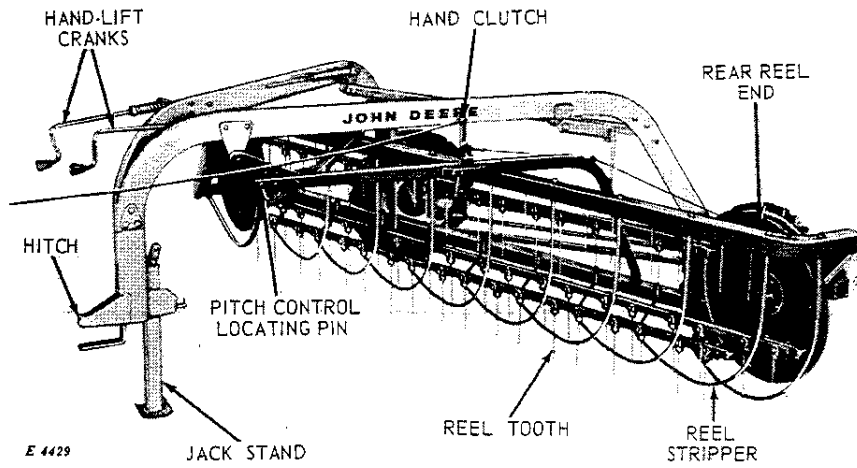
Record your rake serial number in the space provided on page 17. Your dealer needs this information to give you prompt, efficient service when you order parts. If your rake requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on this rake appears on your copy of the purchase order which you should have received from your dealer when you purchased the rake.

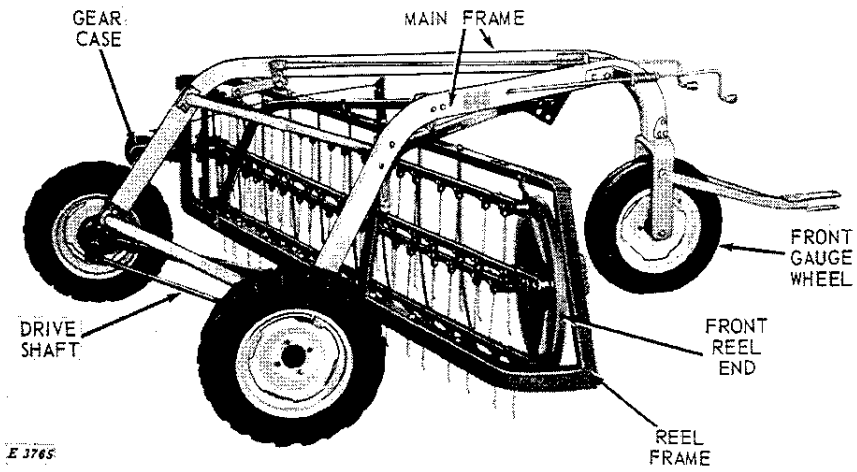


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Left-Hand View of John Deere 640 Side-Delivery Rake with Hitch and Jackstand



Right-Hand View of John Deere 640 Side-Delivery Rake with Front Gauge Wheel



Operation

Your John Deere 640 Series Side-Delivery Wheel Rake is a modern ground-driven rake designed for today's high-speed farming methods. It is a big-capacity rake with right-angle reels to give you maximum raking speed with minimum handling of your crop.

On the following pages you will find information on how to operate your John Deere Side-Delivery Wheel Rake to the best advantage. If you read this manual carefully and follow the instructions, your rake will give years of dependable and economical service.

PREPARING THE RAKE

Tire Inflation

Check tire inflation pressure. Inflate tires to 8 to 15 psi (55 to 103 kPa).

Lubrication

Be sure rake has been lubricated as shown in lubrication section (page 8).

Visual Inspection

Before starting the rake, make sure that all bolts are tight, cotter pins are spread, and the machine has been properly assembled. Doing so will maintain the efficiency of your rake.

HITCHING RAKE TO TRACTOR

Positioning Tractor Rear Wheels

The turning radius of the tractor and rake can be reduced by moving the tractor rear wheels to the narrow setting. This will make shorter turns possible and will prevent tractor tire damage resulting from the rake frame striking the tires on extremely short turns.

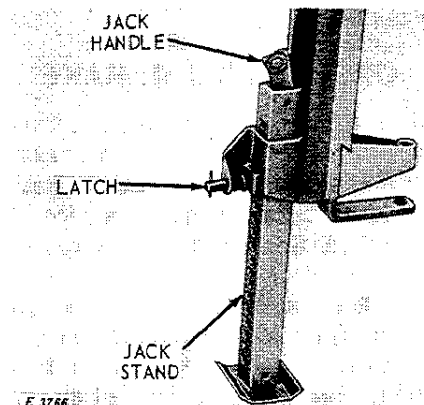
Positioning Tractor Drawbar

When attaching the semi-integral rake to the tractor, set the tractor drawbar to meet ASAE-SAE standards of 13 to 17 inches (33 to 43 cm) from the ground.

IMPORTANT: Do not back up when the reel is lowered because tooth damage may result.

Install optional remote hydraulic cylinder, page 4.

Positioning Jackstand for Semi-Integral Rake



During operating or transporting, the jackstand (located in the hitch) is held firmly out of the way by a spring-loaded latch.

NOTE: Seat the latch in one of the five bottom holes to lock the jackstand in raised position. Operate the jackstand as follows:

Raising Hitch

1. Place the pin on the jack handle completely through the first open hole in the front of the jackstand which is immediately under the jackstand mounting.
2. Push down on the jack handle to raise the hitch.
3. Repeat steps 1 and 2 to raise the hitch higher.

4 Operation

HITCHING RAKE TO TRACTOR—Continued

Positioning Jackstand for Semi-Integral Rake—Continued

Lowering Hitch

1. Place the pin on the jack handle completely through the second open hole below the jack mounting in the front of the jack.
2. Push down on the jack handle, then pull out the latch in the rear of the jackstand—relax the pressure on the jack handle and release the hitch.
3. Repeat steps 1 and 2 to lower the hitch.

Replace the jack handle in the top of the jackstand.

NOTE: It is not necessary to use the jack handle after weight of rake is removed from the jack. The jack may be raised by pulling the latch and lifting the jack by hand. The jack will drop to the ground when the latch is pulled.

OPERATING THE RAKE

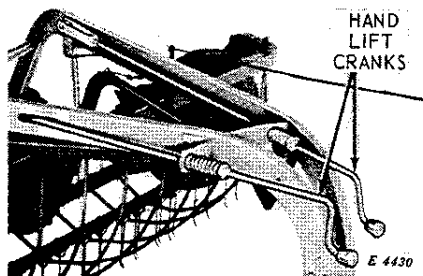
After hitching the rake to the tractor, the only adjustments required for satisfactory operation are the reel height and the pitch of the teeth in relation to the ground. A fifth tooth bar can be added for more gentle crop handling. See pages 5 and 10.

Before starting your new side-delivery rake, disengage the reel clutch lever. Turn the reel by hand to be sure it revolves freely and the teeth do not strike the strippers. Then, engage the reel clutch lever.

OPERATING ADJUSTMENTS

Adjusting Reel Height

Hand Lift Cranks

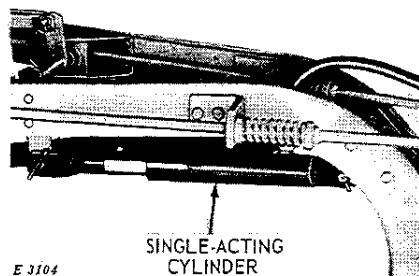


The hand lift cranks lower the reel into operating position or raise the reel for transporting. Turn the cranks clockwise to raise the reel or counterclockwise to lower the reel.

The teeth can be adjusted below the level of the ground for raking peanuts or beans. When raking hay crops, set the teeth as far as possible from the ground, but low enough to allow the teeth to pick up the hay cleanly.

NOTE: Level the reel with either crank after adjusting for raking height.

Remote Hydraulic Cylinder



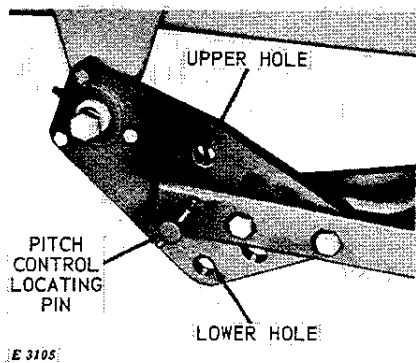
A single-acting remote hydraulic cylinder and adapter is available to control the reel from the tractor seat. The cylinder will instantly raise the reel to clear obstructions or for transporting.

IMPORTANT: Do not remove the hand lift cranks from the rake when using a remote hydraulic cylinder. The hand lift cranks will act as a stop for maintaining the correct reel operating height.

The cylinder adapter may be used with the double-acting remote cylinder on John Deere tractors or any other tractor equipped with a hydraulic system and remote cylinder that conforms with ASAE-SAE standards. A single-acting remote hydraulic cylinder conforming to ASAE-SAE standards can be used.

NOTE: Refer to your tractor operator's manual for correct information regarding the hookup of the remote hydraulic cylinder oil lines.

Adjusting Tooth Pitch



Changing the pitch of the teeth makes it possible to vary the shape and density of the windrow when operating at various speeds and in hay of varying characteristics.

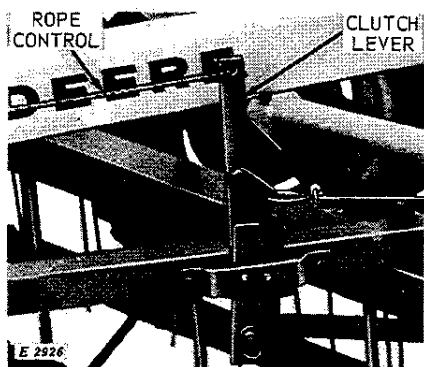
To change the pitch, remove the spring locking pin and the locating pin. Raise or lower the control arms to the desired position, and replace the locating pin and the locking pin.

When the pitch control locating pin is located in the lower hole, a tighter windrow will result. When the locating pin is in the upper hole, a loose, fluffy windrow will result.

When raking edible beans, it may be desirable to set the pitch control in the upper hole for maximum forward pitch.

NOTE: After changing the position of the pitch control, the operating height of the teeth must be reset to the desired position (page 4).

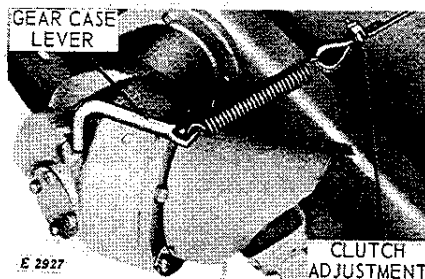
Engaging Reel Clutch



The reel clutch is rope-controlled from the tractor seat. The reel will engage when the

rope is pulled and the lever is released. The reel is disengaged when the lever is locked as shown.

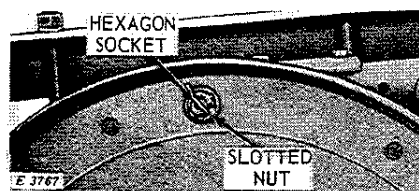
CAUTION: Do not engage the reel when the rake is in motion.



Adjust the clutch by placing the lever in the locked position; then, loosen the cable clamp on the spring. Pull the cable tight enough to move the gear case lever all the way forward. Tighten the clamp.

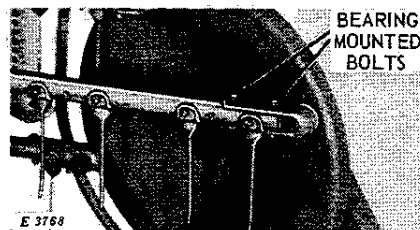
Turn the reel by hand to make sure it is disengaged. Release the lever to make sure the reel will engage.

Adding or Removing Tooth Bars



To remove (or install) tooth bars, proceed as follows:

1. Remove the slotted nuts from both ends of the bars to be removed. Loosen other tooth bar slotted nuts as necessary.
2. Loosen the three front reel end spindle housing bolts.



3. Remove the bearing mounting bolts from one or both ends (as necessary) of the tooth bars to be removed.

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