

950 SERIES ROLLER HARROWS



OPERATORS MANUAL 950 SERIES ROLLER HARROWS

OMA41405 F0 English

JOHN DEERE DES MOINES WORKS
OMA41405 F0


LITHO IN THE U.S.A.
ENGLISH





To the Purchaser

This new roller harrow was carefully designed and manufactured to give years of dependable service. To keep it operating 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, lubrication, or maintenance. Read "Contents" to learn where each section is located.

 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.

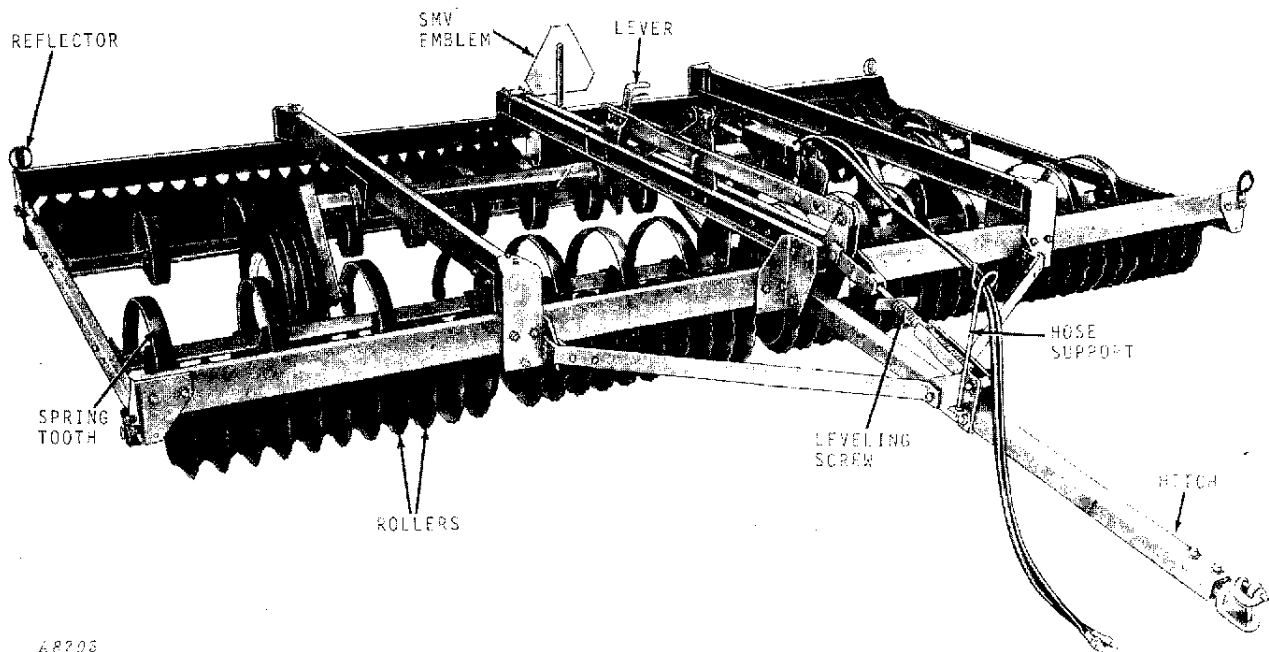
In addition to the equipment furnished with your roller harrow, attachments are available to help you

do a better job in special conditions. These are described in the "Attachments" section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction the roller harrow will travel when in use.

Record your roller harrow serial number in the space provided on page 30. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your roller harrow requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

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



A8703

*John Deere 950 15-Foot 3-Inch (4.7 m) Roller Harrow
(SMV Emblem, Special Equipment)*

950 SERIES ROLLER HARROWS

TO THE DEALER

Predelivery service is the service John Deere recommends that a dealer perform on a machine before delivering it to a customer. This includes assembly, lubrication, adjustment, and test. The service assures that the machine will be delivered in good condition to the customer and the customer will be fully satisfied with its performance right from the start.

The John Deere Delivery Receipt, when properly filled out and signed by the dealer and customer, verifies that the predelivery and delivery services were satisfactorily performed. When delivering this machine, give the customer a copy of the delivery receipt and the operator's manual. Explain their purpose.

Be certain to retain your copy of the **packing list** for shipping bundle information.

PREDELIVERY CHECK LIST

The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- Inspect to be sure nuts on all bolts have been tightened and all cotter pins spread. See bolt torque chart on page 14.
- Be sure all grease fittings are installed. Lubricate the roller harrow (See Page 11).
- Inflate tires to correct pressure. (See page 3).
- Be sure roller gangs turn freely.
- Paint all unpainted bolts and nuts and any other parts scratched in shipment.
- This roller harrow has been checked and, to the best of my knowledge, is ready for delivery to the customer.

(Date Set Up)

(Signature Of Set-Up Person)

OWNER REGISTER

Name _____

Post Office _____

County _____ State _____

Model _____

Serial No. _____

Date Sold _____

DELIVERY CHECK LIST

The following check list is a reminder of very important information which should be conveyed directly to the customer at time roller harrow is delivered. Check off each item as it is fully explained to the customer.

- Advise the customer that the life expectancy of this or any other machine is dependent on regular lubrication as directed in the operator's manual.
- Tell the customer about all safety precautions that must be observed while using this roller harrow.
- When the roller harrow is transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell the customer to check local governmental regulations.
- Give the operator's manual to the customer and explain all operating adjustments.
- To the best of my knowledge this machine has been delivered ready for field use and customer has been fully informed as to proper care and operation.

(Date Delivered)

(Signature Of Delivery Person)

CUT HERE



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Safety

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GENERAL

 The safety of the operator was one of the prime considerations in the minds of John Deere engineers when this roller harrow was designed.

You can make your farm a safer place to live and work if you observe the safety suggestions given. Study these suggestions carefully and insist that they be followed by those working with you and for you.

Finally, remember this: An accident is usually caused by someone's carelessness, neglect, or oversight.

OPERATION

To avoid injury, always be careful while operating a tractor and roller harrow.

Do not grease, oil, or adjust the roller harrow while it is in motion.

Never permit any person other than the operator on the tractor. Never ride or permit others to ride on the drawbar of the tractor or roller harrow.

Never ride or permit others to ride on the roller harrow.

Always lower roller harrow to ground when it is not in use.

Park or block the roller harrow so it will not roll when disconnected from the tractor.

HYDRAULIC OIL

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes, and hoses are not damaged.

Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping hydraulic oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

TRANSPORTING

When transporting the roller harrow on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Do not exceed a speed of 20 mph (32.2 km/h) when transporting.



Preparing For Use

GENERAL

Your new 950 Roller Harrow is designed to provide once-over seedbed preparation.

The action of the front roller packer wheels breaks up the surface clods. Two rows of heavy teeth bring sub-surface lumps to the surface to be crushed by the rear roller packer wheels. This leaves a moist, gently packed seedbed which is free of air pockets and hastens germination of seed.

Crowfoot packer wheel gangs are available as optional equipment in place of the roller packer wheel gangs. The crowfoot packer wheel gangs can be used on either the front or rear or on both front and rear of the harrow.

PREPARING THE ROLLER HARROW

Tire Inflation

Check tires on roller harrow to be sure they are inflated to pressure shown below:

Tire Size	Inflation Pressure
7.60-15, 4 ply rating	(165 kPa) (1.7 bar) 24 psi
7.60-15, 6 ply rating	(248 kPa) (2.5 bar) 36 psi
7.60-15, 8 ply rating	(331 kPa) (3.3 bar) 48 psi
11L-14, 6 ply rating	(165 kPa) (1.7 bar) 24 psi

Lubrication

Be sure your roller harrow has been properly lubricated. See the lubrication chart on page 11 for lubrication instructions.

Regular and systematic lubrication is the best assurance against breakdown and delays. It will help you get better service from your roller harrow and save on your maintenance costs.

PREPARING THE TRACTOR

Setting the Rockshaft Selector Lever

Set the selector lever in Zero, "D" or "Min" position, depending upon your model tractor. Keep the lever in this position while working with the roller harrow.

Rockshaft Height Stop 4030, 4040, 4230, 4240, 4430 and 4440 Tractors

If the tractor rockshaft is accidentally lowered with a Quik-Coupler hitch on the tractor, damage can occur to the roller harrow hitch when turning the tractor.

To prevent accidentally lowering the rockshaft while operating the roller harrow, install AR60331 rockshaft height stop. Installation instructions are provided with the stop.

Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual.


Rear Wheel Weighting

Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so would hinder maximum performance of the tractor. See your tractor operator's manual for recommended rear wheel weighting.

Tractor Drawbar

Set the tractor drawbar in the short low position.

When working, the drawbar can be allowed to swing free or be pinned in the center of the tractor.

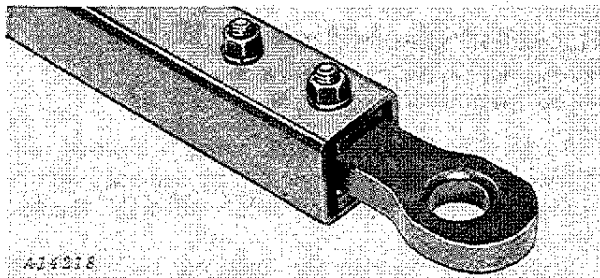
 **CAUTION:** Be sure to lock the tractor drawbar in fixed position when transporting the roller harrow.



Attaching and Detaching

ATTACHING TO TRACTOR

Raise or lower roller harrow hitch to tractor drawbar height with leveling screw (see page 7). Back tractor into position and attach to roller harrow with tractor drawbar pin.



Optional Hitch Loop for Tractor Clevis Drawbars

If tractor is equipped with a clevis drawbar, the optional hitch loop available from your John Deere dealer should be used.

Installing Hydraulic Cylinder and Hoses

CAUTION: To avoid injury from escaping hydraulic oil under pressure, relieve the pressure in the system by shutting off tractor and moving remote cylinder operating levers in both directions before attaching hoses to breakaway couplers.

The remote hydraulic cylinder raises and lowers the transport wheels.

To determine if additional hose is required, attach the remote cylinder hoses to the tractor breakaway couplers. Lay the cylinder on the ground directly behind the drawbar with hoses stretched out full length. Pull hoses down to the tractor drawbar. Measure the distance from the end of the drawbar to the hose end of the cylinder. If this distance is less than 86 inches, (2 185 mm) additional hose will be required. See your John Deere dealer.

Hose Length

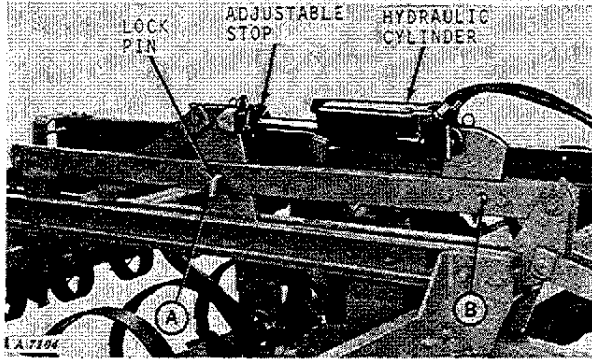
The hose length from the remote cylinder to the tractor drawbar must be at least 86 inches (2 185 mm). Add to this the length of hose required to reach from the tractor drawbar to the tractor remote cylinder outlets.

For example, if the length of hose necessary to reach from the tractor drawbar to the tractor remote cylinder outlets is 48 inches (1 220 mm), the total required length of hose is 86 inches (2 185 mm) plus 48 inches (1 220 mm) or 134 inches (3 405 mm).

Bleeding Hydraulic Cylinder

If the cylinder has not been used before, it may be necessary to bleed all the air from the cylinder as explained in the tractor operator's manual.

Attaching Remote Hydraulic Cylinder With Harrow In Transport Position

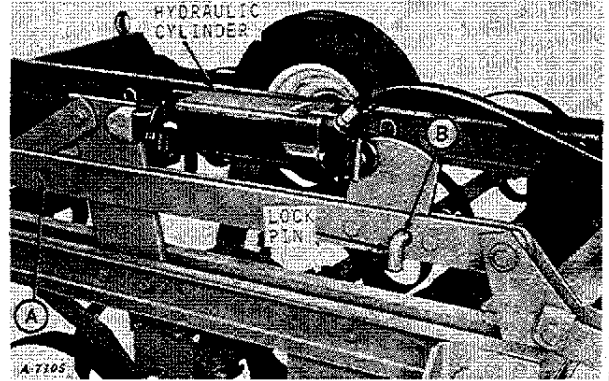


With cylinder extended to approximately 1 inch (25 mm) short of the fully extended position, attach the cylinder to the roller harrow.

Set adjustable stop so the full stroke of the cylinder may be used unless it is desired to have the transport wheels support a portion of the roller harrow's weight while working.

Fully extend the cylinder and remove pin from hole "A" and place in hole "B" (as illustrated above). To place roller harrow in working position, retract cylinder.

Attaching Remote Hydraulic Cylinder With Harrow In Working Position.



To attach the cylinder when the roller harrow is in working position, fully retract the cylinder. Remove lock pin from hole "B" and attach hydraulic cylinder. Extend the cylinder and replace the lock pin in hole "B" as shown above.

DETACHING FROM TRACTOR

CAUTION: Lower the roller harrow to the ground before detaching from tractor.

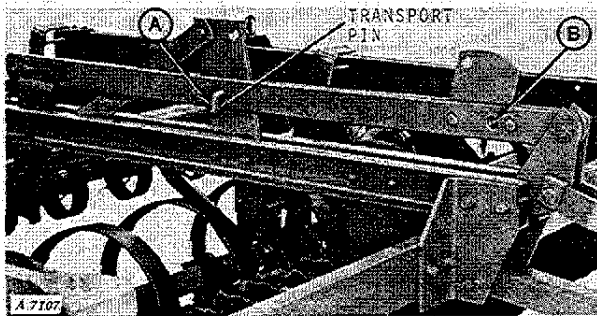
To avoid injury from escaping hydraulic oil pressure, relieve the pressure in the system by shutting off tractor and moving remote cylinder operating levers in both directions before removing hoses from breakaway couplers.

Disconnect all hoses from the tractor.

Disconnect roller harrow from tractor drawbar.



Transporting



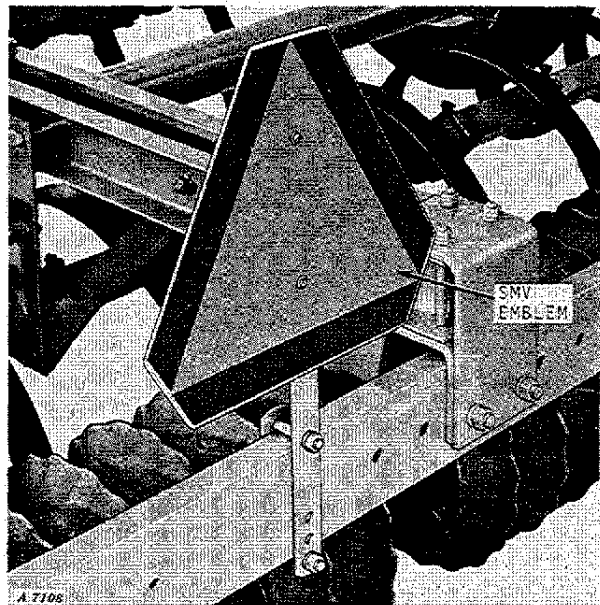
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CAUTION: The transport pin must be in hole "A" and the tractor drawbar pinned when transporting the roller harrow.

To place the roller harrow in transport position, fully extend the cylinder and remove the pin from hole "B." Insert and secure the pin in hole "A." Relieve the hydraulic pressure on the cylinder or remove the cylinder.

CAUTION: These roller harrows have been designed to be transported at a maximum speed of 20 mph (32 km/h). **DO NOT EXCEED.** Never travel at any speed which does not permit adequate control of steering and stopping.

When transporting the roller harrow on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations for proper use. Various safety lights and devices are available from your John Deere dealer.



A slow moving vehicle (SMV) emblem is available for your roller harrow as an attachment. It is a warning to the operators of vehicles approaching from the rear. Keep this emblem clean.

IMPORTANT: When transporting the roller harrow, adjust the leveling screw (see page 7) so the front roller gangs are approximately one to two inches (25 mm to 50 mm) lower than the rear roller gangs. This will help prevent the roller harrow from bouncing or rocking when passing through swales.

Thank you so much for reading.
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complete manual.



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