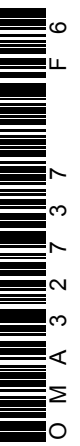



Y
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D





To the Purchaser

This new disk tiller 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.

Because John Deere sells its products world-wide, U.S. units of measure are shown with their respective Metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.

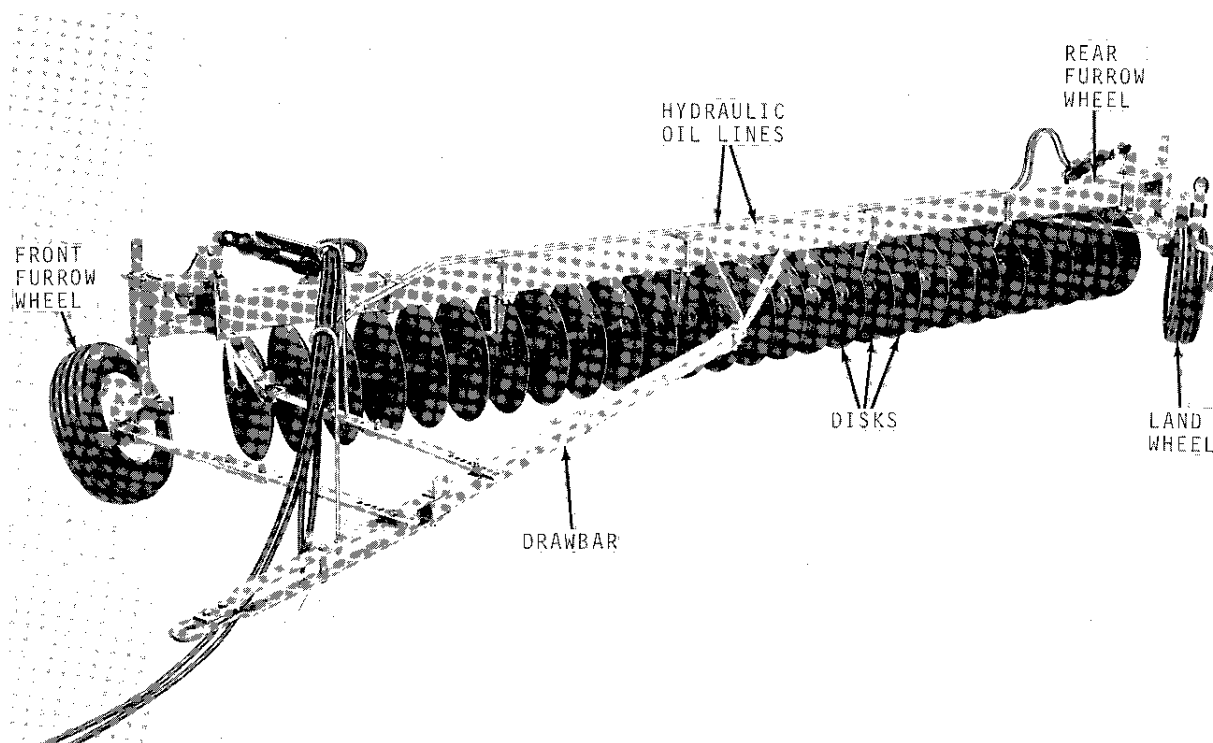
In addition to the equipment furnished with your disk tiller, attachments are available to help you do a better job in special conditions. These are described

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 disk tiller will travel when in use.

Record your disk tiller serial number in the space provided on page 20. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your disk tiller requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

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



A 7648

John Deere 8500 20-Foot (6 096 mm) Disk Tiller



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Safety Suggestions

GENERAL



The safety of the operator was one of the prime considerations in the minds of John Deere engineers when this disk tiller 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.

OPERATION

To avoid injury, always be careful while operating a tractor and disk tiller.

Never permit any person other than the operator on the tractor.

Never ride or permit others to ride on the disk tiller.

Do not grease, oil, or adjust the disk tiller while it is in motion.

When the disk tiller is in a raised position, be sure remote cylinder operating levers are not bumped or touched by anyone.

Always lower the disk tiller when not in use. Shut off tractor engine and move the selective control lever back and forth to relieve pressure in cylinder and hoses.

If spray can paint is used for protecting disks to be put in storage, be careful when discarding empty can. Do not incinerate or puncture can.

TRANSPORTING

While transporting the disk tiller on a public road, follow safety suggestions outlined under "Transporting," pages 7 and 8.

Be sure to lock drawbar in a fixed position when transporting the tiller.

This disk tiller should be transported at a maximum speed of 20 mph (30 km/h). Do not exceed.

Use care when transporting across rough ground.

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.

Always relieve pressure in the hydraulic system before working with hydraulic system components.



Preparing For Use

IMPORTANCE OF PROPER ADJUSTMENT

Your new tiller, when properly adjusted, will do excellent work on all types of tillage jobs—preparing seedbeds, mulching stubble, and working summer-fallow.

While adjustments on this tiller are simple, read all instructions carefully so you will be able to make adjustments properly. A properly adjusted tiller pulls lighter and results in lower maintenance cost.

PREPARING THE TILLER

Disks

The surfaces of the tiller disks have been painted with protective black paint.

In most cases, it is not necessary to remove the black paint because it will wear off quickly upon contact with the soil. In soils where the black paint will not wear off, remove with diesel fuel.

If the tiller is not to be used immediately, protect the surface of the disks by applying a light coat of gun grease. If tiller is to be put in storage for a considerable length of time, remove dirt and trash and apply a good rust preventative. See page 17.

Bolts, Set Screws, And Cotter Pins

Before starting to work with a new tiller or one which has been stored, check to see that all nuts, bolts, and set screws are tight and all cotter pins spread to keep them from falling out. Check to see that the gang shaft nuts are drawn up tight. See page 18.

A good practice is to check for loose nuts, bolts, screws, or parts when lubricating the tiller. Loose bolts are easily lost and cause excessive wear on parts, resulting in possible serious damage to the tiller.

Tire Inflation

Check tires on tiller to be sure they are inflated to 32 psi (2.2 bar) air pressure.

Lubrication

Be sure tiller has been properly lubricated. See lubrication chart on page 16.

PREPARING THE TRACTOR

For complete tractor operating instructions, refer to your tractor operator's manual.

Rockshaft Selector Lever


Before attaching tiller to the tractor, set the rockshaft selector lever in the "D," "zero," or "min" position. Keep the selector lever in this position while operating.

Tractor Drawbar

Set the drawbar in the long high position.

When operating tiller, the tractor drawbar should be free to swing.

When transporting, pin the drawbar to the center of the support.

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

PREPARING THE TRACTOR—Continued

Rear Wheel Setting

Set tractor wheels so the swinging drawbar runs as close to center of tractor as possible.

Operate wheel-type tractors with the right-hand wheels in the furrow or with all wheels on the land, and crawler-type tractors with both tracks on the land.

During normal operation, all turns should be made to the left. When turning to the right, be careful so the front wheel of tiller does not run into rear wheel of tractor.

Front Wheel Setting

To get proper field maneuverability, set the front wheels to conform to rear-wheel setting, center-to-center of tread.

Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual. When operating tiller with the right-hand tractor tires in the furrow, add 4 psi (0.3 bar) more air in right rear tire than in left rear tire.

Rear Wheel Weighting

In average conditions, tractor rear wheel weights are not necessary. In those conditions where it becomes necessary to add weight to the rear wheels, see your tractor operator's manual for weighting instructions.

Power can be lost and tire life cut drastically by wheel slippage. Adding weight also serves to stabilize the tractor when working in rough or hillside fields.

The ideal amount of added weight can be determined by observing the tracks of the rear wheels. When the tractor is pulling its rated load, the soil between the tire lugs should be broken or shifted. If too much weight has been added, the tread marks will be clear and distinct. If too little weight has been added, the tread marks will be entirely obliterated.

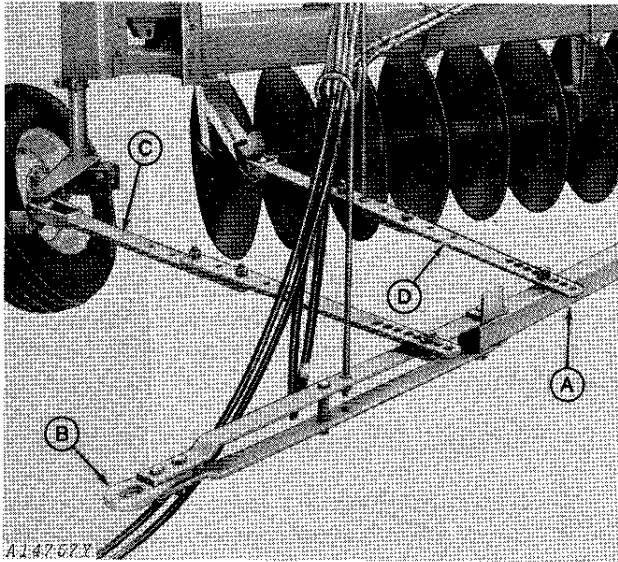


**be careful.....
avoid accidents**



Attaching and Detaching

ATTACHING TILLER TO TRACTOR



A—Drawbar
B—Drawbar Connecting Loop
C—Steering Bar
D—Hitch Brace

The 8500 Disk Tiller requires a clevis type tractor drawbar.

Back tractor up to tiller.

Lift hitch to tractor drawbar and secure with pin supplied with tractor clevis.

Hose Length

To provide ample hose, the length of the remote cylinder hoses may have to be increased.

The minimum hose length from the tractor drawbar hitch point to the hose end of the cylinder or oil line connectors is 152 inches (3 860 mm).

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 152 inches (3 860 mm), additional hose is required. See your John Deere dealer.

Attaching Hydraulic Cylinders and Hoses

Before attaching hoses to tractor, relieve pressure in the tractor hydraulic system. To relieve pressure, stop tractor engine and move remote cylinder operating levers back and forth several times.

IMPORTANT: Wipe hose ends to remove any dirt before inserting in the breakaway couplers.

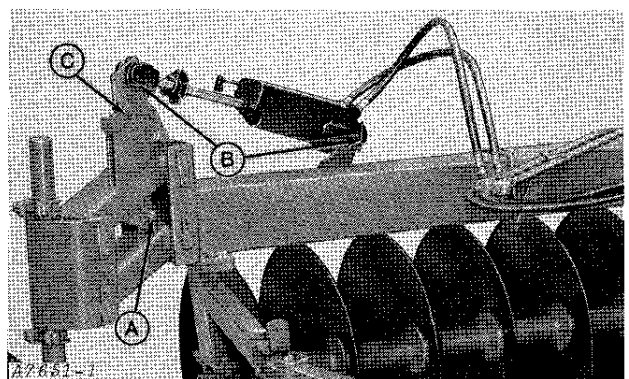
Install hoses in breakaway couplers so that cylinder will extend or retract as indicated by symbols on tractor console. Move the operating lever back and forth a few times to pressurize the cylinder.

NOTE: If the hoses have been disconnected from the hydraulic cylinder or if the cylinder has not been used before, all trapped air must be removed from the cylinder.

To remove trapped air, remove cylinder attaching pins and lay the cylinder across the disk tiller frame with the oil outlets up to allow the trapped air to escape. Start the engine and operate the remote cylinder operating lever back and forth seven or eight times, allowing the full stroke each time.

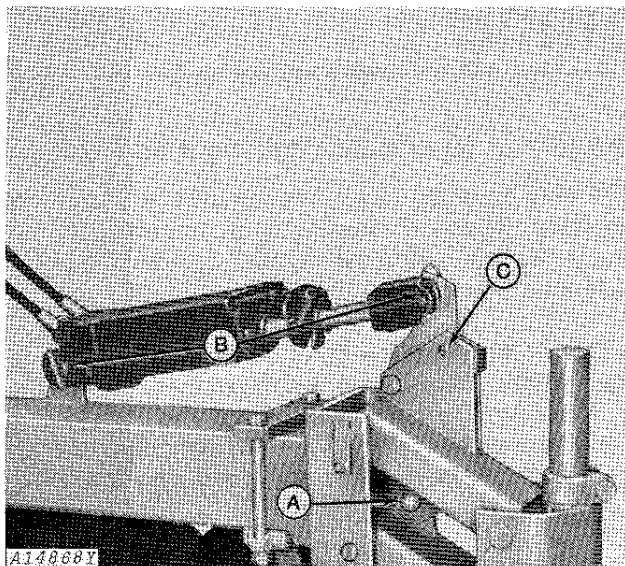
Attach the front hydraulic cylinder to the disk tiller as follows:

With transport pin in transport position (A), install the front cylinder on the tiller as shown below. Extend the cylinder and move transport pin to operating position (C).



A—Transport Pin in Transport Position
B—Attaching Pins
C—Operating Position for Transport Pin

Attaching Hydraulic Cylinders and Hoses—Continued



A—Transport Pin in Transport Position
B—Attaching Holes
C—Operating Position for Transport Pin

Attach rear hydraulic cylinder to disk tiller as follows:

With transport pin in transport position (A), install the rear cylinder on the tiller as shown above.

Extend the cylinder and move transport pin to operating position (C).

Place hoses through hose support.

Checking Hydraulic System

After attaching the tiller to tractor for the first time, check all hydraulic connections and hoses for leaks.

CAUTION: Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting hoses, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that 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.

DETACHING TILLER FROM TRACTOR

CAUTION: Before removing hydraulic hoses from tractor, be sure to relieve the hydraulic pressure. To do this, shut off the tractor and move the remote cylinder operating lever back and forth several times.

1. If in field working position, be sure tiller is lowered to the ground. Disconnect hoses and drawbar.
2. If in field transport position, move transport pins to transport position. Disconnect hoses and drawbar.
3. If in road transport position, be sure transport pins are in transport position. Disconnect hoses and drawbar.

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