

111 DISK



JOHN DEERE

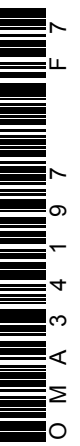
OPERATORS MANUAL

111 DISK

OMA34197 F7 English

PLOW & PLANTER WORKS
OMA34197 F7

LITHO IN THE U.S.A.
ENGLISH





To the Purchaser


This new disk 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, lubrication, or service. Read "Contents" to learn where each section is located.

In addition to the equipment furnished with your disk, 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.

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

Record your disk serial number in the space provided on page 51. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your disk 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 appears on your copy of the purchase order which you should have received from your dealer when you purchased the disk.

 **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.



Contents

Page	
2	Safety Suggestions
3	Identification Views
4	Preparing for Use
5-7	Attaching and Detaching
8-10	Transporting
11-22	Operating Adjustments
23-26	Attachments
27	Lubrication
28-47	Service
48-49	Trouble Shooting
50-51	Specifications
52	Index



Safety Suggestions

GENERAL

2



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

Be careful when operating the disk to avoid injury.

Never ride or permit others to ride on the drawbar of the tractor or on the disk.

Only one person—the operator—should be permitted on the tractor platform while tractor and disk are in operation.

Be careful when operating on hillsides because the tractor may tip sideways if it strikes a hole, ditch, or other irregularity.

Never clean, lubricate, or adjust a machine that is in motion.

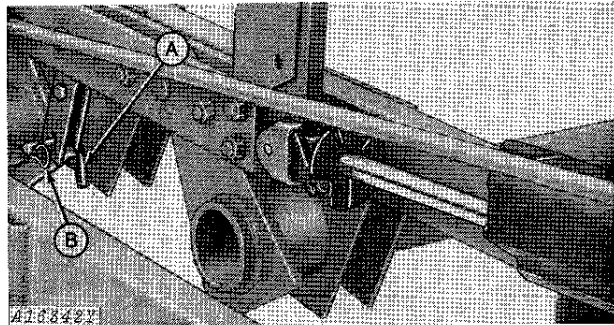
When removing self-adjusting scrapers for any reason, always remove scraper which has spring attached to upper portion of tension lever first. See page 22. When installing scrapers always install this scraper last. Wear protective gloves to help prevent injury from cutting edges of disk blades or scraper blades.

Do not leave the disk in the raised position when not in use. Always lower it to the ground.

TRANSPORTING

When transporting disk 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. Lights and devices may be obtained from your John Deere dealer.

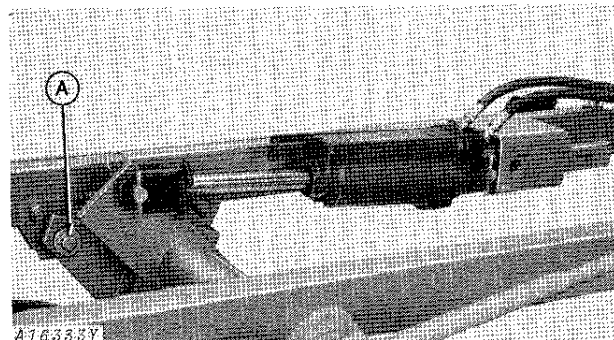
When transporting the disk on a smooth surface road, do not exceed maximum tractor transport speed. Reduce speed considerably when traveling over rough ground.



A—Retaining Pin

B—Spring Locking Pin

Wide Frame



A—Retaining Pin

Narrow Frame

Before transporting the disk, fully extend the hydraulic cylinder and insert retaining pin (A) and spring locking pin (B) in transport lock on wide frame disk.

Insert retaining pin (A) and Quik-Lock pin on narrow frame disk before transporting.

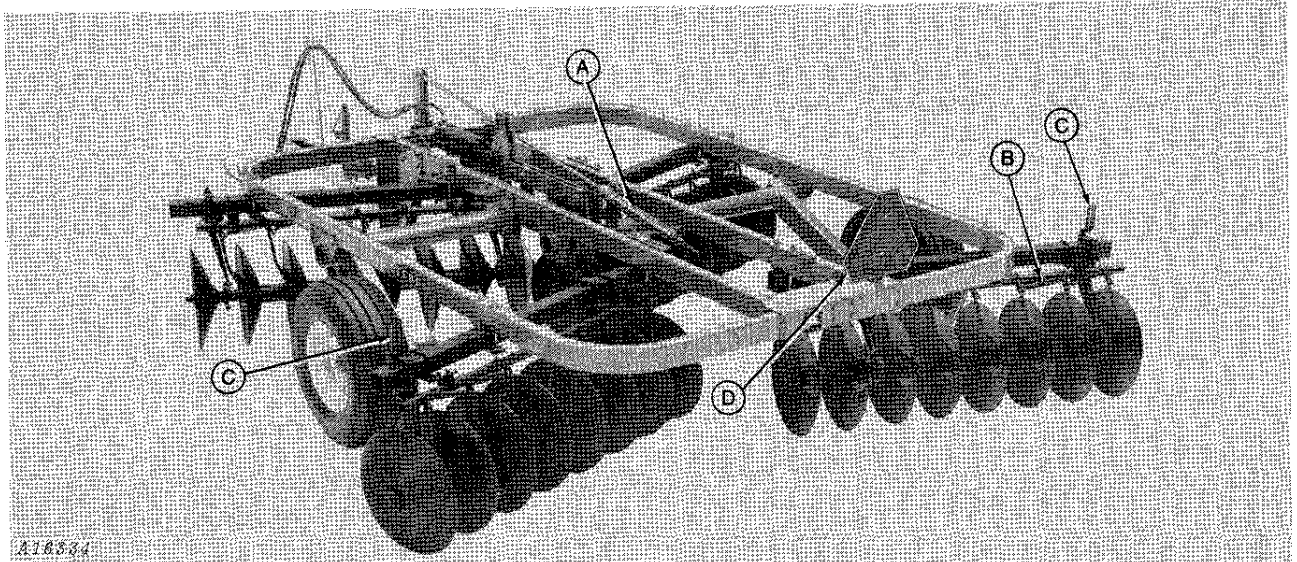
HYDRAULIC OIL

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.

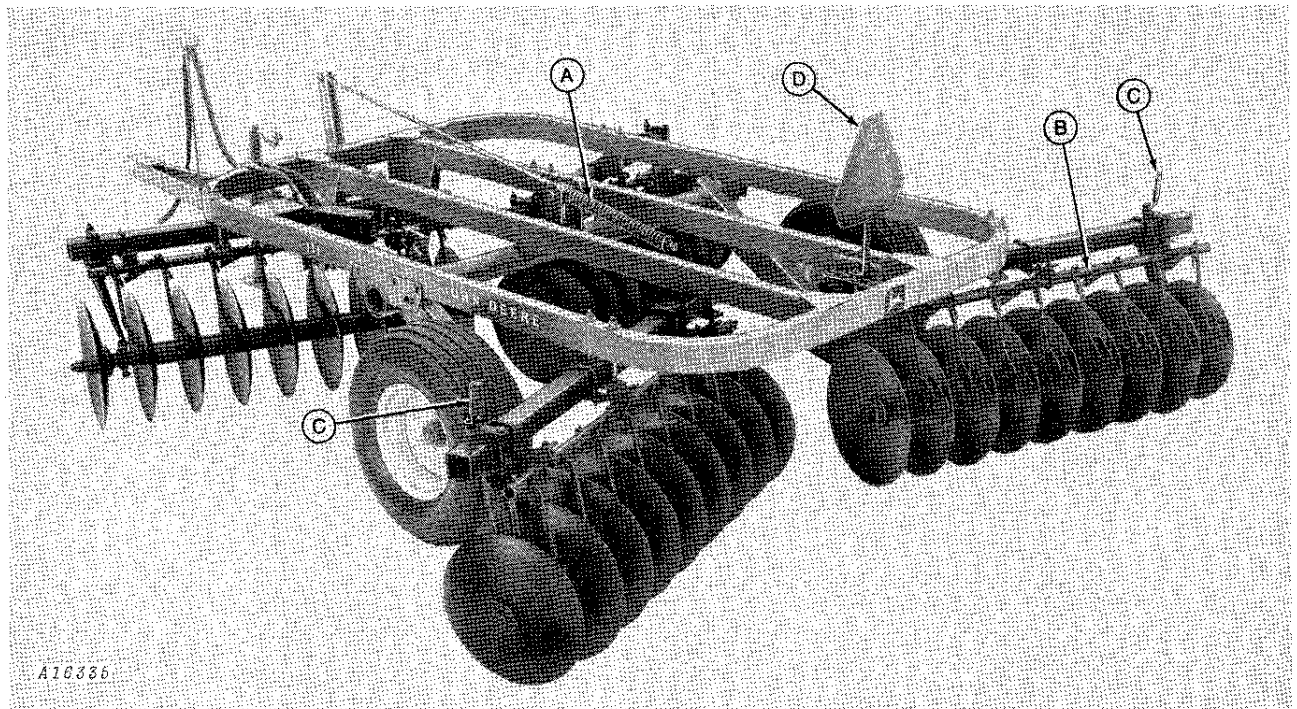
Identification Views



A—Leveling Rod and Spring
B—Self-Adjusting Scrapers

C—Reflectors
D—Slow Moving Vehicle Emblem

John Deere 111 Disk (Wide Frame)



A—Leveling Rod and Spring
B—Self-Adjusting Scrapers

C—Reflectors
D—Slow Moving Vehicle Emblem

John Deere 111 Disk (Narrow Frame)



Preparing For Use

GENERAL

Your new disk is fully adjustable and when properly adjusted, will do a good job of disking at a minimum of expense. A well-adjusted disk levels the soil uniformly and leaves it in proper condition for the best type of seedbed.

Improper adjustment or lubrication results in rapid wear, possible breakage of parts, and inefficient operation.

4

PREPARING THE DISK

Lubricate the disk as instructed on page 27.

Be certain all bolts are tightened securely. See torque chart on page 28.

Inflate the disk tires to 30 psi (2.1 bar) (2.1 kg/cm²) of air pressure.

The 111 Disk can be used with any tractor equipped with an 8-inch (205 mm) stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

The length of the remote hydraulic cylinder hoses should be 120 inches (3 050 mm).

Install the remote hydraulic cylinder on the disk and disconnect the transport pin, see pages 8 and 9.

PREPARING THE TRACTOR

General

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

Rockshaft Selector Lever

Set the tractor rockshaft selector lever in the "zero" or "D" position, depending upon your model tractor.

Tire Inflation

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

Tractor Drawbar

Place the tractor drawbar in the lower position.

Secure tractor drawbar in the center of the drawbar support.

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.

Rockshaft Operating Lever Height Stop (4030, 4040, 4230 and 4240 Tractors)

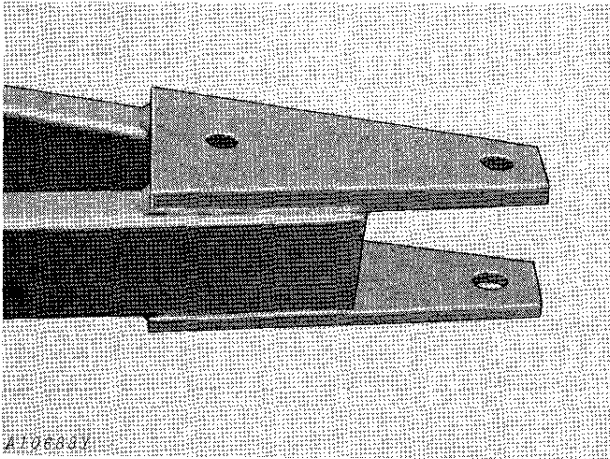
If the tractor rockshaft is accidentally lowered with a Quik-Coupler hitch on the tractor, damage can occur to the 111 Disk hitch when turning the tractor.

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

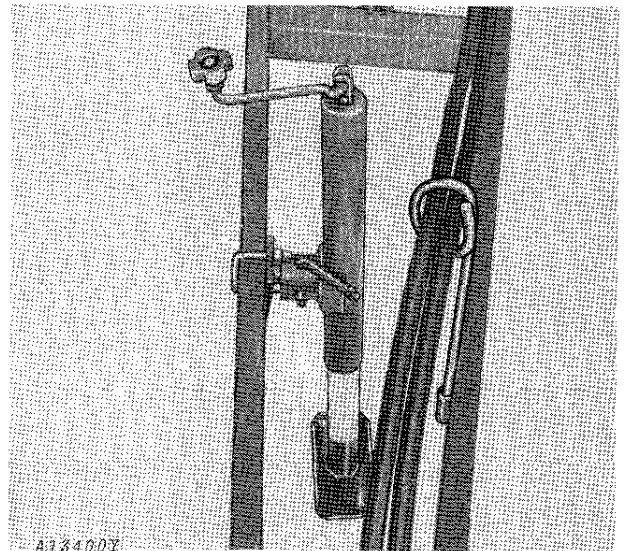


Attaching and Detaching

ATTACHING TO TRACTOR



Position of Disk Hitch When Tractor Is Equipped With Straight or Offset Drawbars

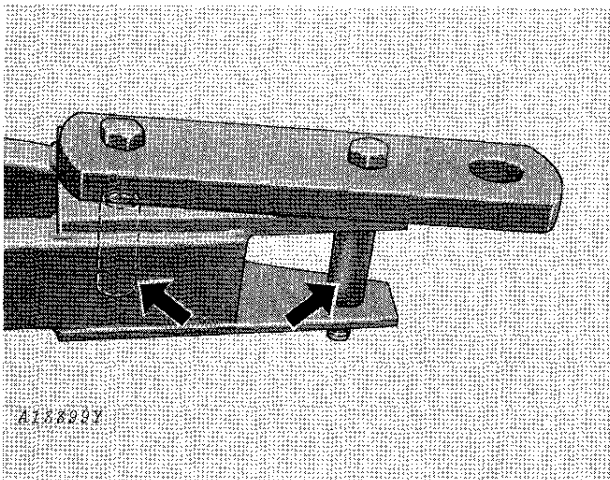


5-7

Back the tractor up to the disk.

Raise hitch to drawbar height with jack (attachment).

NOTE: If jack is not used, the disk drawbar must be supported to prevent it from dropping below tractor drawbar height.

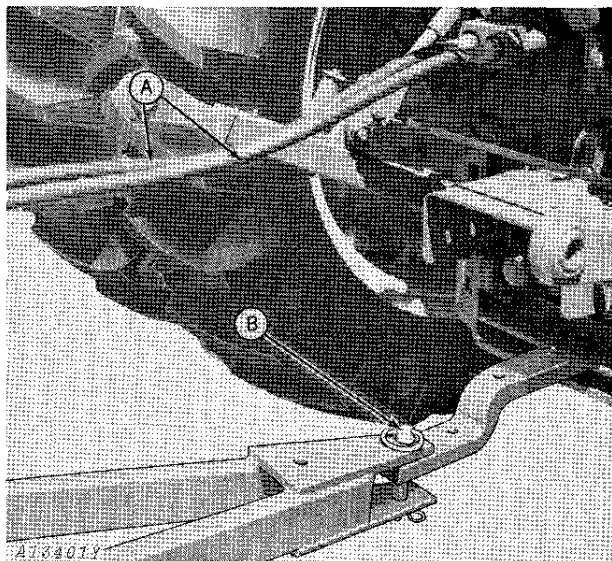


Hitch Adapter for Tractor Equipped With a Clevis Drawbar

Position hitch as illustrated for tractors equipped with straight drawbars or for tractors equipped with clevis drawbars.

Attach hitch adapter with spacers positioned as shown.

ATTACHING TO TRACTOR—Continued



A—Remote Cylinder Hydraulic Hose

B—Drawbar Pin

Back tractor into position and attach to disk with drawbar pin (B). Secure drawbar pin with pin retainer.

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

Install the disk hydraulic hoses (A) in the tractor breakaway couplers so cylinders will extend, lifting disk, when hydraulic control lever is moved rearward.

CHECKING HYDRAULIC SYSTEM

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

CAUTION: 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.

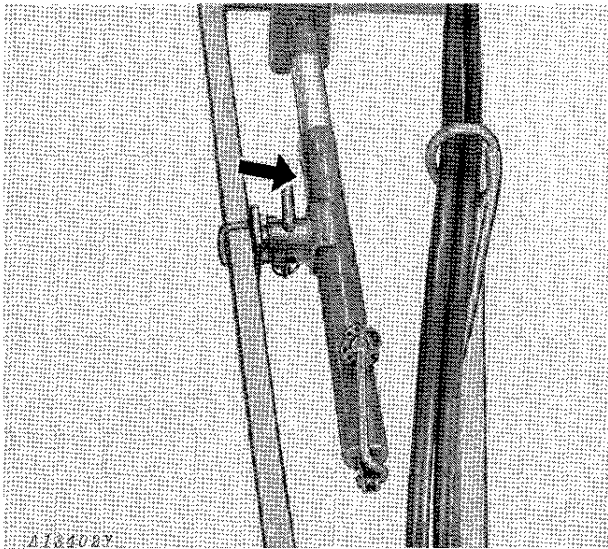
Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

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.

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 bleed air from the hydraulic cylinders and hoses it may be necessary to raise and lower the disk several times until all air is removed from the hydraulic hoses.

IMPORTANT: Be certain to check tractor hydraulic oil level after filling cylinders with oil for the first time.



Raise jack, remove jack retaining pin and swing jack into horizontal position as shown for field operation.

Replace retaining pin and secure with Quik-Lock pin.

DETACHING FROM TRACTOR

When detaching disk from tractor, lower disk to ground with remote cylinder operating lever. Relieve hydraulic pressure from system by shutting off tractor and moving remote cylinder operating lever in both directions.

Remove hoses from breakaway couplers. Remove jack retaining pin and swing jack into vertical position as illustrated on page 5. Raise hitch with jack until weight of hitch is transferred from tractor drawbar to jack.

NOTE: If jack is not used, raise hitch by hand and block at desired height.

Remove drawbar pin and drive tractor forward away from hitch.

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