

235 WING-FOLD DISK

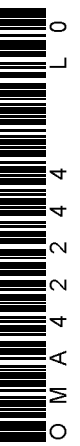


OPERATORS MANUAL 235 WING-FOLD DISK

OMA42244 L0 English

**PLOW & PLANTER WORKS
OMA42244 L0**

LITHO IN THE U.S.A.
ENGLISH



INTRODUCTION



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.

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

Record your disk model and serial number in the space provided on page 85.

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

Warranty on disk gang bearings is as follows:

**JOHN DEERE TWO YEAR DISK
GANG BEARING WARRANTY**

We Will:

1. Pay parts and labor to replace any gang bearing which fails through normal use within two years from the recorded date the machine warranty starts.
2. This warranty applies to all 215, 235, 315, 335, 355, 375, and 455 model John Deere Disks.

You Must:

1. Maintain, adjust, operate and lubricate the disk as recommended in the operator's manual.
2. Have any gang bearing replacement performed by an authorized John Deere Dealer.

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



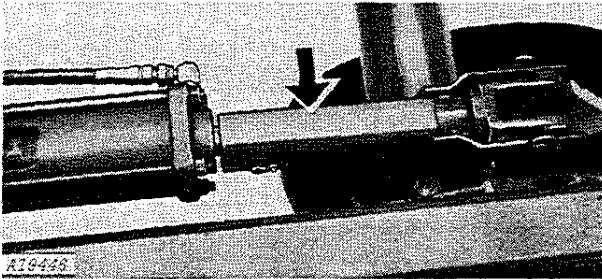
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Safety

2-4



Transport Safety

Engage and secure transport locks (bold arrow) before transporting.

The maximum transport speed for this disk is 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 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. Various safety lights and devices are available from your John Deere dealer.

Use of flashing warning lights and turn signals are recommended when towing this equipment on public roads unless prohibited by state or local regulations. An implement safety lighting kit is available from your John Deere dealer.

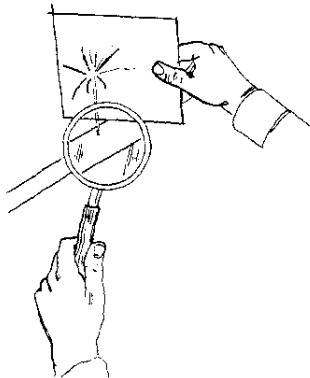
While transporting disk on public roads, follow safety instructions outlined under "Transporting", page 12-14.

Use care when transporting across rough ground.

Avoid High Pressure Leaks

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for leaks.

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



H35336

Operate Disk Safely

Be careful when operating disk to avoid injury.

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

Wear protective gloves to prevent injury from cutting edges of disk blades or scraper blades.

Park or block disk so it will not roll when disconnected from tractor drawbar.

When leaving tractor and disk, be certain transport locks are installed or disk is lowered to ground.

Permit only one person — the operator — on tractor platform while tractor and disk are in operation.

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

Lubricate the Disk Safely

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

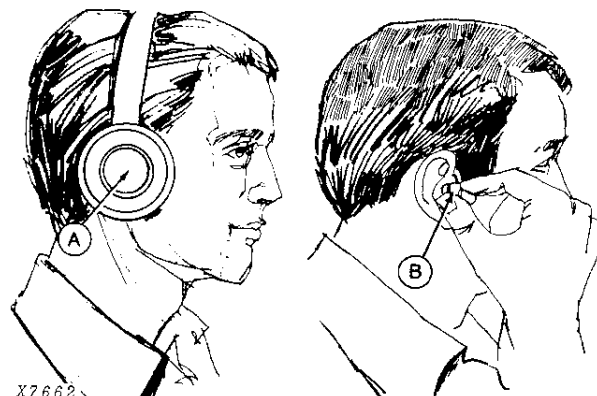
Dispose of Spray Cans Safely

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

Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



A - Earmuffs
B - Ear Plugs

Mounting Tires

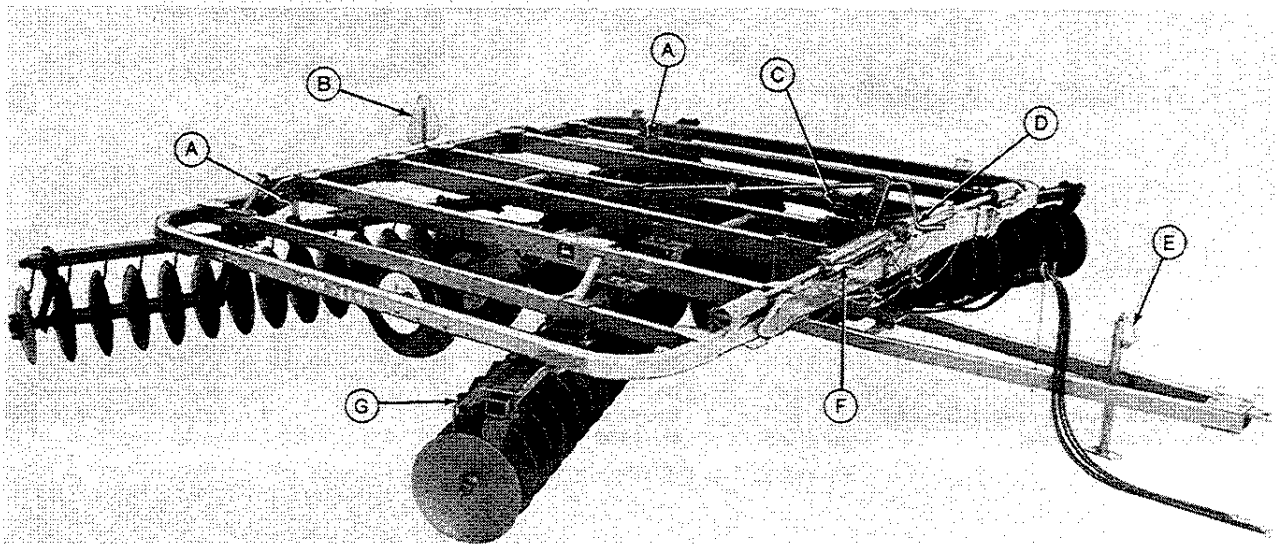
Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.



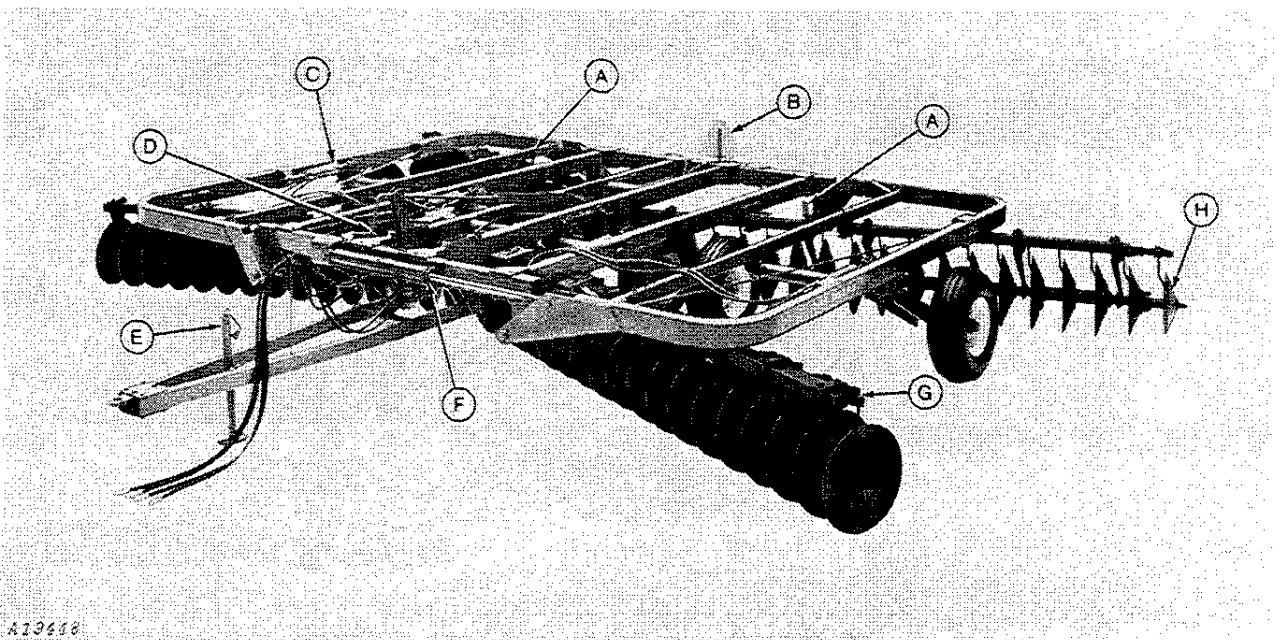
Identification Views



5-6

A19147

John Deere 235 Narrow Wing-Fold Disk — 21-Foot 4-Inch (6.5 m) Size



A19618

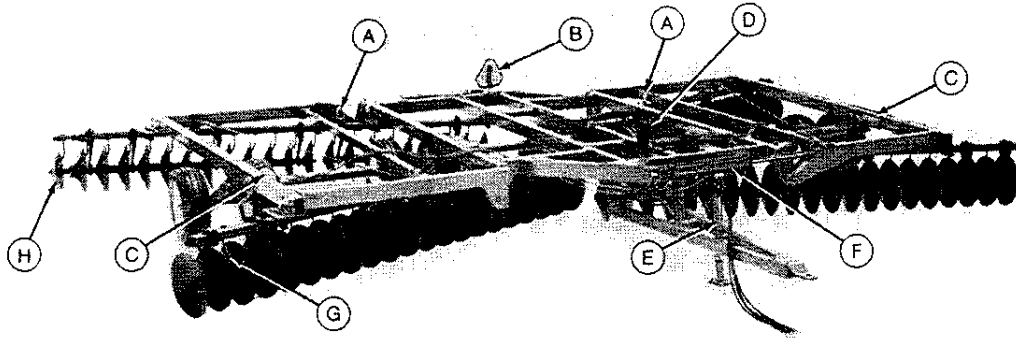
John Deere 235 Wide Wing-Fold Disk — 25-Foot 7-Inch (7.8 m) Size

A - Reflector
 B - SMV (Slow Moving Vehicle) Emblem
 C - Wheel Frame Cylinder

D - Leveling Crank
 E - Hitch Jack
 F - Fold Cylinder

G - Combination Scraper
 H - Furrow Filler (Attachment)

6 Identification Views



5-6

A21507

John Deere 235 Wide Wing-Fold Disk — 30-Foot 1-inch (9.2 m) Size

- A - Reflector
- B - SMV (Slow Moving Vehicle) Emblem
- C - Wheel Frame Cylinder

- D - Leveling Crank
- E - Hitch Jack
- F - Fold Cylinder

- G - Combination Scraper
- H - Furrow Filler (Attachment)



Preparing the Tractor

DRAWBAR

Locate drawbar in low position for hard ground conditions (disking stalks or primary disking) or when maximum weight is needed for penetration.

Place drawbar in high position for light soil depth gauging or when using the cushion gang attachment.

Pin drawbar in the center extended position.

BALLAST, WHEEL SPACING AND TIRE INFLATION

To insure proper stability, adjust ballast, wheel spacing and tire inflation according to tractor operator's manual.

HYDRAULIC OIL LEVEL

NOTE: Tractor must be on level surface with engine stopped.

Check hydraulic oil level. If necessary, fill to proper level on dipstick.

ROCKSHAFT SELECTOR LEVER

Set the tractor rockshaft selector lever in the "min" position, depending upon your model tractor. Be sure rockshaft lever is set to keep 3-point hitch up at all times.

ROCKSHAFT OPERATING LEVER HEIGHT STOP (4440, 4640, 4840, 8440, and 8640 TRACTORS)

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



Preparing the Disk

TIRE INFLATION

Inflate 11L-15, 6 PR disk tires to 205 kPa (2.1 bar) (30 psi) of air pressure.

Inflate 11L-15, 8 PR disk tires to 275 kPa (2.8 bar) (40 psi) of air pressure.

NOTE: (Narrow Wing-Fold) If optional gauge wheels are used inflate to 138 kPa (1.4 bar) (20 psi).

8-9

LUBRICATION

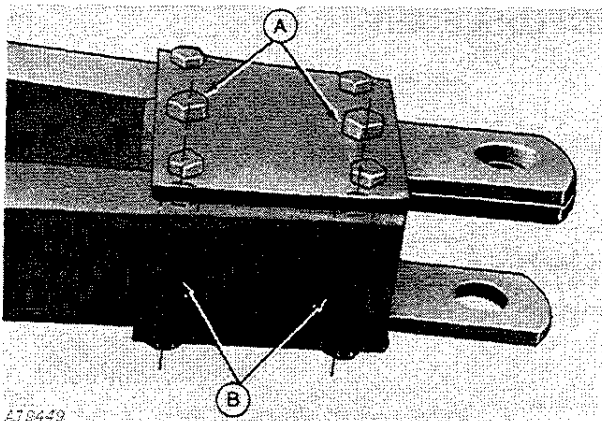
Lubricate disk as instructed on page 28-29.

HARDWARE

Be certain all pins and split pins are in place. Spread split pins.

Make sure cap screws and nuts are tight. See bolt torque chart on page 30.

HITCH CONVERSION (25-Foot 7-Inch [7.8 m] Width Disk And Smaller Size Disks)



When disk is used with tractor equipped with straight drawbar, convert hitch as follows:

Remove bolts (A) and 1-1/4- x 2-15/16-inch (30 x 75 mm) spacers (B).

Insert 1-11/16- x 2-3/16-inch (40 x 55 mm) spacers between drawbar straps as shown.

Replace bolts (A) and torque to 300 ft-lbs (405 N·m).

A - Bolts
B - Spacers

SCRAPERS

The disk is shipped with scrapers set in the rigid position which is recommended when working in abrasive or sticky soil.

Self-adjusting scrapers are recommended when working in normal soil. Follow conversion procedure below:

20 Foot 8-Inch (6.3 m), 23 Foot (7 m), 25 Foot 3-Inch (7.7 m), 27 Foot 3-Inch (8.3 m), 29-Foot 6-Inch (9.0 m), Disk with 7-1/4-Inch (185 mm) Blade Spacing

For scrapers attached to standards, remove lock nut (A), small flat washer (B), spacer (C), large flat washer (D), and cap screw (E).

Insert cap screw and large washer through spacer, scraper, scraper tube and scraper support bracket. Secure with small flat washer and lock nut.

For remaining scrapers, loosen cap screw securing scraper until one thread protrudes past the nut.

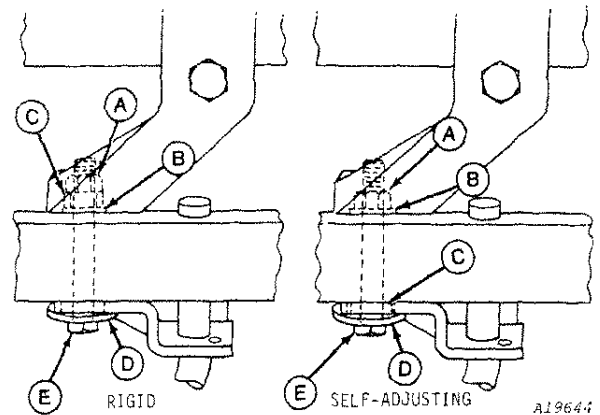
19 Foot 11-Inch (6.1 m), 21 Foot 4-Inch (6.5 m), 22 Foot 9-Inch (6.7 m), 25 Foot 7-Inch (7.8 m), 27 Foot 1-Inch (8.3 m), and 30 Foot 1-Inch (9.2 m) Disks with 9-Inch (230 mm) Blade Spacing

Loosen scraper retainer bolt (bold arrow) until one thread protrudes past the nut.

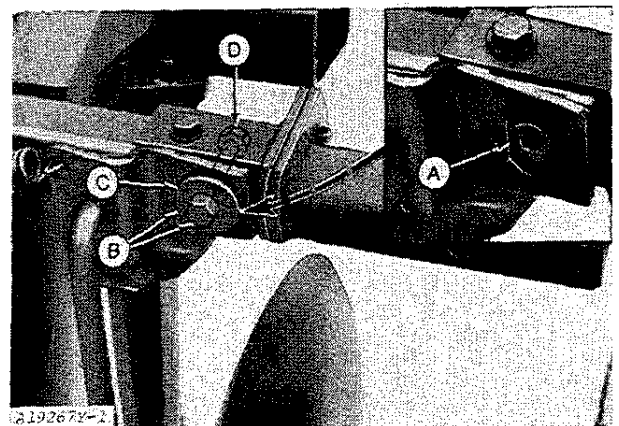
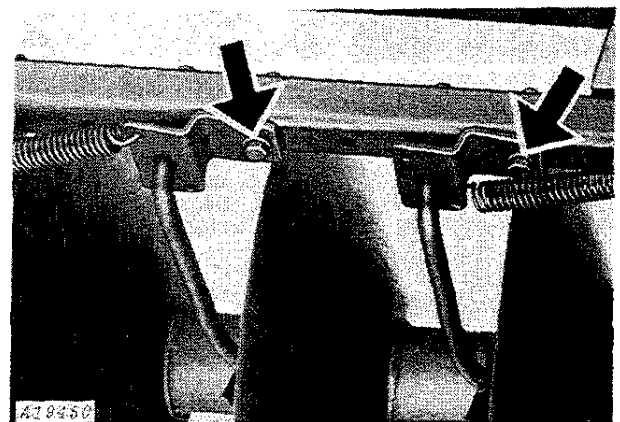
With Furrow Filler

Insert bushing (A) into slotted scraper arm. Insert cap screw (B) with flat washer (C) through scraper, bushing and scraper tube. Secure with lock nut (D) on front side of scraper tube.

- A - Bushing
- B - Cap Screw
- C - Flat Washer
- D - Lock Nut

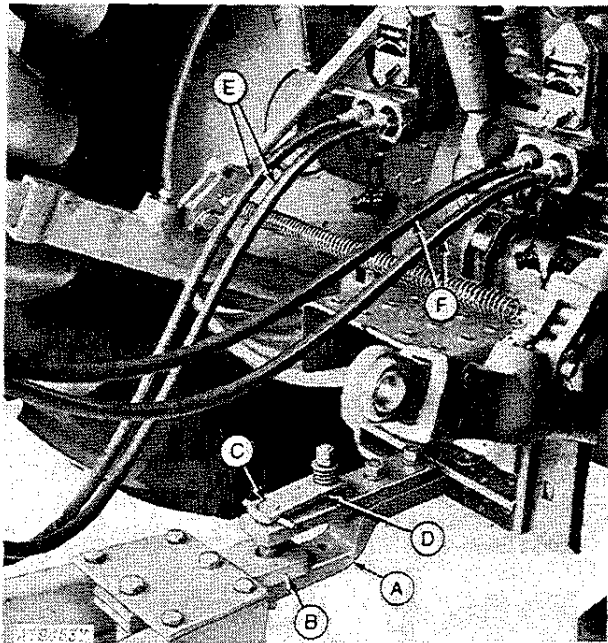


- A - Lock Nut
- B - Small Flat Washer
- C - Spacer
- D - Large Flat Washer
- E - Cap Screw





Attaching to Tractor



10-11

- A - Drawbar
- B - Hitch
- C - Hitch Pin
- D - Pin Retainer
- E - Depth Cylinder Hoses
- F - Fold Cylinder Hoses

Back tractor up to align drawbar (A) with hitch (B) using hitch jack.

Install hitch pin (C) and secure with pin retainer (D).

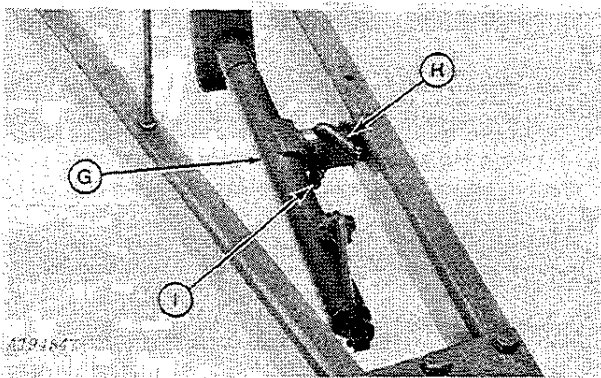


CAUTION: To avoid injury from escaping hydraulic oil under pressure, relieve the pressure in the system by shutting off tractor and moving remote cylinder operating levers in both directions before attaching hoses to or detaching hoses from the breakaway couplers.

NOTE: The tractor must be equipped with two breakaway couplers.

Shut off tractor. Relieve hydraulic pressure and install the depth cylinder hoses (E) and fold cylinder hoses (F) to tractor breakaway couplers.


IMPORTANT: Locate metering valve arm near the "hare" position. Do not operate near the "tortoise" position, or damage to tractor can result.



Lock hitch jack (G) into horizontal transport position with retainer pin (H) and Quik-lock pin (I).

- G - Hitch Jack
- H - Retainer Pin
- I - Quik-lock Pin

CHECKING HYDRAULIC SYSTEM

 **CAUTION:** Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury.

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.

After applying pressure to the system, check all hydraulic connections and hoses for leaks.

The disk should raise and lower and fold smoothly. If not, bleed the hydraulic system of trapped air.

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, raise and lower or fold the disk several times until all air is removed.

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

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