

# 235 Standard 235 Regular and 235 DuraCushion™ Disks



## OPERATORS MANUAL 235 Standard 235 Regular and 235 DuraCushion™ Disks

OMA51278 Issue C6 English

**OMA51278 Issue C6**

LITHO IN U.S.A.  
ENGLISH



# Introduction

## 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 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 being transported.

Record the identification number(s) in the space provided following Specifications. Accurately record all of the characters because (should the product be stolen) tracing is sometimes through a computer match of letters and numbers. Also, your dealer needs this information when ordering parts. If you carry your operator's manual on the machine for reference, be sure to also record the identification number(s) on a separate sheet of paper and file it in a secure place not on the machine so you will still have a record in case the machine is stolen.

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

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. The warranty on disk gang bearings is shown at left.

# Contents

Page	Page
<b>Safety</b> . . . . .	<b>1-4</b>
<b>Safety Signs</b> . . . . .	<b>5</b>
<b>Identification View</b> . . . . .	<b>6</b>
<b>Preparing the Tractor:</b>	
Drawbar . . . . .	7
Rockshaft Selector Lever . . . . .	8
<b>Preparing the Disk:</b>	
Tire Inflation . . . . .	9
Combination Scraper Operation-Rigid . . . . .	9
Combination Scraper Operation-Self-Adjusting . . . . .	10-11
Rigid Scrapers . . . . .	12
Hitch Drawbar . . . . .	13
<b>Attaching and Detaching:</b>	
Attaching to Tractor . . . . .	14-15
Checking Hydraulic System . . . . .	16
Detaching from Tractor . . . . .	17-18
<b>Transporting:</b>	
Lock Tractor Drawbar . . . . .	19
Hydraulic Drawbar Link . . . . .	19
Telescoping Drawbar Link . . . . .	20
Leveling for Transport . . . . .	21
Installing Transport Locks . . . . .	22
Implement Warning Light Kit . . . . .	22
Transporting the Disk . . . . .	23
<b>Operating the Disk:</b>	
Operating Speed . . . . .	24
Hydraulic Drawbar Link . . . . .	24
Rephasing Lift Cylinders . . . . .	24
Adjusting Disking Depth Vertically . . . . .	24
Adjusting Disking Depth Side-to-Side . . . . .	25-28
Depth Stop . . . . .	29
Single Point Depth Stop Attachment . . . . .	29
Wing Stabilizer Wheel . . . . .	30
Hydra-Flex Wing Control Attachment . . . . .	31-34
Adjusting Disking Depth Front-To-Rear . . . . .	35
Adjusting Gang Angle . . . . .	36-38
<b>Attachments:</b>	
Gang Nut Wrenches . . . . .	39
Bearing Wear Guard . . . . .	40
Furrow Filler Attachment . . . . .	40
Tine-Tooth Harrow . . . . .	41
Implement Light Kit . . . . .	41
Spray Attachment . . . . .	42
Depth Stops . . . . .	43
Hitch Adapter Attachment . . . . .	43
Rear Hitch Attachment . . . . .	44
Wing Stabilizer Wheel Attachment . . . . .	44
Telescoping Drawbar Link Attachment . . . . .	45
Hydraulic Drawbar Link Attachment . . . . .	45
Single Point Depth Stop Attachment . . . . .	45
Hydra-Flex Wing Control Attachment . . . . .	45
<b>Lubrication</b> . . . . .	<b>46-50</b>
<b>Troubleshooting</b> . . . . .	<b>51-57</b>
<b>Service:</b>	
Bolt Torque . . . . .	58
Wing-Fold Cylinders . . . . .	59
Replacing Blades . . . . .	60-61
Replacing Disk Gangs . . . . .	62-64
Bearing Standard Locations . . . . .	65-95
Tightening Gang Bolts . . . . .	96
Replacing Spring Bolt . . . . .	97
Disk Blade Failures . . . . .	97-101
<b>Storage:</b>	
Beginning of Season Service . . . . .	102
End of Season Service . . . . .	102
<b>Crime Prevention Tips</b> . . . . .	<b>103-104</b>
<b>Attachment Assembly</b> . . . . .	<b>105-121</b>
<b>Specifications</b> . . . . .	<b>122-131</b>
Serial Number . . . . .	131

# Safety

## TRANSPORT SAFELY

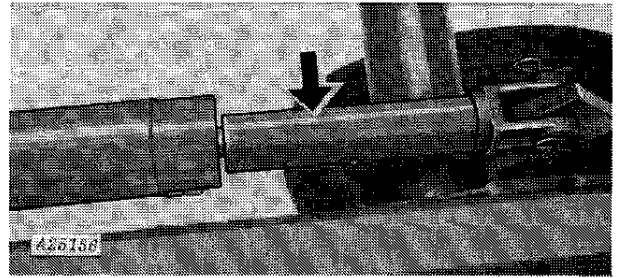
Engage and secure transport locks (bold arrow) before transporting.

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.

While transporting disk on public roads, follow safety instructions outlined under TRANSPORTING.

Use care when transporting across rough ground.

Serious injury or death can result from contact with electric lines. Use care when moving or operating this machine near electric lines to avoid contact.



8AX;A25156 B04;4SA A. 140386

## OPERATE THE 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.

Lower disk completely to the ground before unhitching from the tractor, or if the disk is to be unhitched in the raised position, be sure the disk is resting on the transport locks and the disk is on a level and firm surface.

On a disk equipped with a harrow attachment to be stored in raised position, be sure the transport locks have been installed on the cylinder rods and the jack is located on the rear of the disk to prevent hitch whip-up.

Shut tractor engine OFF. Move remote cylinder operating levers in both directions until all hydraulic pressure is relieved.

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

Tongue can whip upward when unhitching. To avoid bodily injury, lower the machine to the ground before removing hitch pin.

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.

To avoid injury or death, do not contact electric lines.

Do not adjust machine while it is in motion.

Stand clear of machine when wings are being folded or unfolded. Mechanical or hydraulic failure can allow wings to fall rapidly.

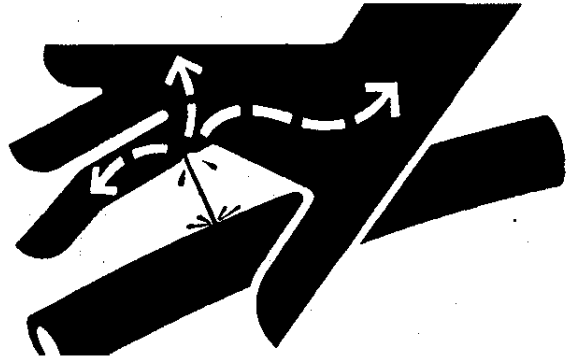
Be sure cylinder and attaching hoses are fully charged with oil before operating system. Failure to do so will allow wings to fall rapidly when attempting to lower from folded position.

B04;4SA B 140386

### AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard to search for leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

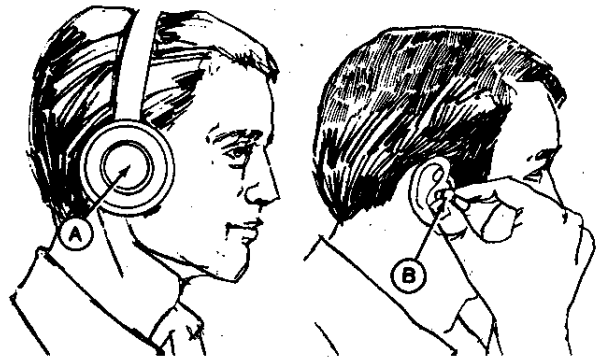


AB6;X9811 053;FLUID 010586

### 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 uncomfortable loud noises.



AB6;X7662 053;NOISE 150584

### LUBRICATE THE MACHINE SAFELY

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

B06;;20SA C 090985

### DISPOSE OF SPRAY CANS SAFELY

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

B06;;20SA E 090985

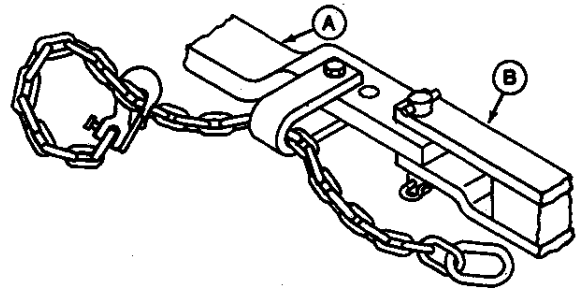
### DO NOT MODIFY MACHINE

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

B06;;20SA D 090985

### USE A SAFETY CHAIN

A safety chain will help control drawn equipment (B) should it accidentally separate from the drawbar (A) while transporting. Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine.



AB6;TS163 053;CHAIN 310884

### USE IMPLEMENT WARNING LIGHTS

When transporting the equipment 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 devices are available from your John Deere dealer.

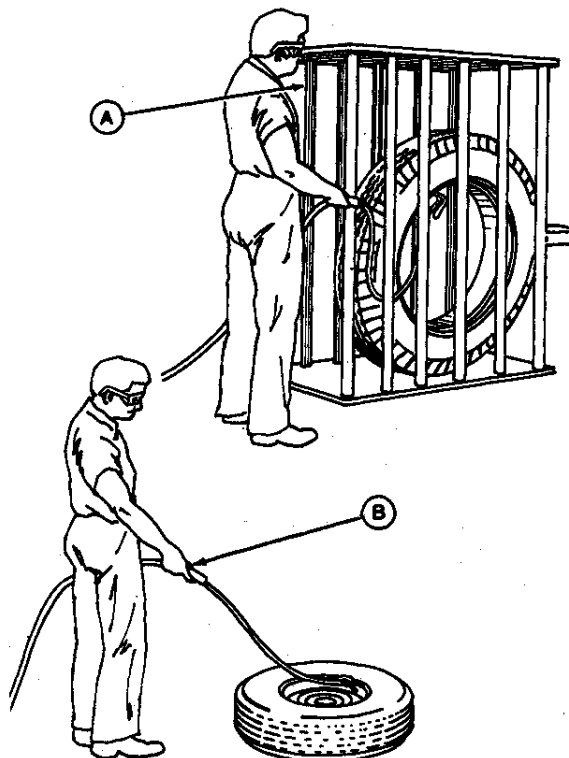
AT6; B06;;14SA F 030284

## SERVICE TIRES SAFELY

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 (241 kPa) (2.4 bar) 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.

- A—Use a Safety Cage if Available.
- B—Do Not Stand Over Tire. Use a Clip-on Chuck and Extension Hose.



AB6;TS123 053;TIRE 160486

## AVOID INJURY FROM DISK BLADES

When removing or installing scraper blades or scrapers, wear protective gloves to help prevent injury from cutting edges of disk blades.

B04;;4SA C 140386

# Safety Signs

## FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.



AB6;TS188 053;SIGNS 071085

## UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



AB6;TS187 053;SIGNAL 071085



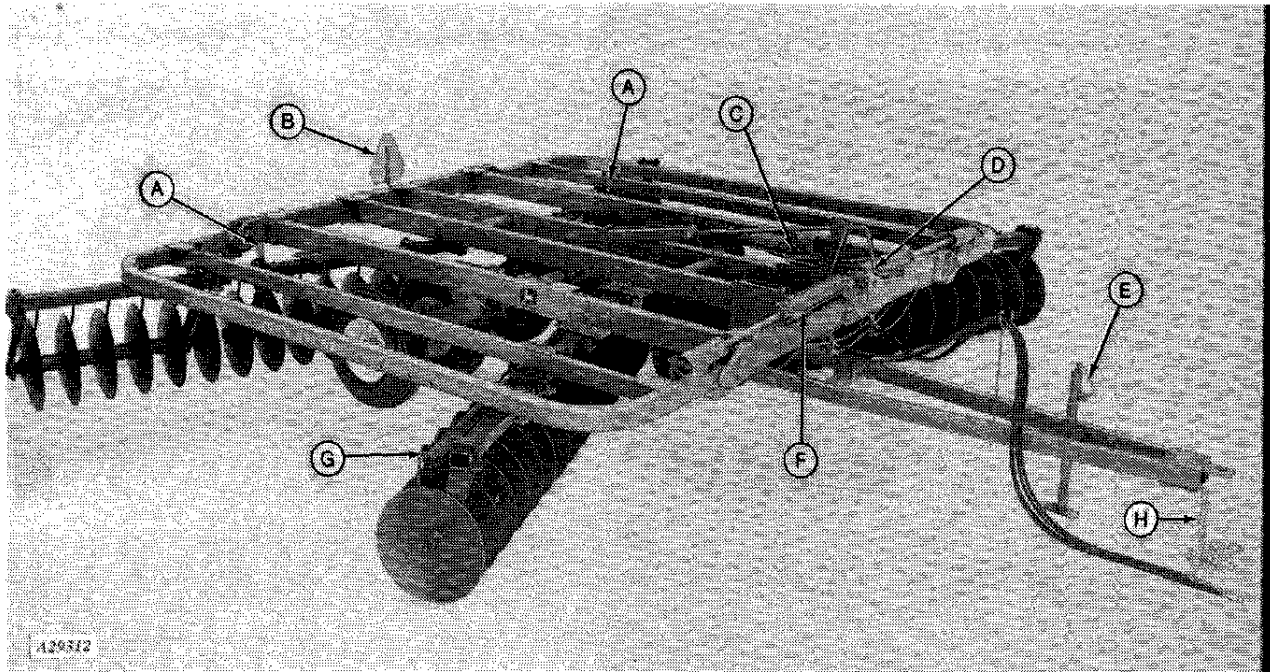
A29462

BAX;A29462 B04;455 A. 140386



# Identification View

## IDENTIFICATION VIEW



*John Deere 235 Regular Disk -21 Ft. 4 In. (6.5 m) Size*

**A—Reflectors**

**B—SMV (Slow Moving Vehicle)  
Emblem**

**C—Wheel Frame Cylinder**

**D—Leveling Crank**

**E—Hitch Jack**

**F—Fold Cylinder**

**G—Combination Scraper**

**H—Safety Chain**

8AX;A29312 B04;4ID A. 160586

# Preparing the Tractor

## RECOMMENDED TRACTORS

- 14 Ft. 3 In. (4.3 M) Disk—recommended for tractors with up to 140 PTO hp (104 kW).
- 15 Ft. 8 In. (4.8 m) Disk—recommended for tractors with up to 140 PTO hp (104 kW).
- 16 Ft. 1 In. (4.9 m) Disk—recommended for tractors with up to 140 PTO hp (104 kW).
- 17 Ft. 1 In. (5.2 m) disk—recommended for tractors with up to 165 PTO hp (123 kW).
- 18 Ft. 4 In. (5.5 m) disk—recommended for tractors with up to 165 PTO hp (123 kW).
- 18 Ft. 6 In. (5.6 m) disk—recommended for tractors with up to 165 PTO hp (123 kW).
- 19 Ft. 11 In. (6.1 m) disk—recommended for tractors with up to 165 PTO hp (123 kW).
- 20 Ft. 8 In. (6.3 m) disk—recommended for tractors with up to 165 PTO hp (123 kW).
- 21 Ft. 4 In. (6.5 m) disk—recommended for tractors with up to 165 PTO hp (123 kW).
- 22 Ft. 9 In. (6.9 m) disk—recommended for tractors with up to 215 PTO hp (160 kW).
- 23 Ft. 0 In. (7.0 m) disk—recommended for tractors with up to 215 PTO hp (160 kW).
- 25 Ft. 3 In. (7.7 m) disk—recommended for tractors with up to 215 PTO hp (160 kW).
- 25 Ft. 7 In. (7.8 m) disk—recommended for tractors with up to 215 PTO hp (160 kW).
- 27 Ft. 1 In. (8.3 m) disk—recommended for tractors with up to 300 PTO hp (224 kW).
- 30 Ft. 1 In. (9.2 m) disk—recommended for tractors with up to 300 PTO hp (224 kW).

B04;;4PT A. 140386

## DRAWBAR



**CAUTION:** When transporting disk, pin drawbar in the center extended position.

Because center steering tractors place additional stress on the disk hitch and frame, center drawbar in drawbar support leaving one hole clearance on each side when operating the disk. On all other tractors, pin the drawbar in the center position.

B04;;4PT B 140386

## **ROCKSHAFT SELECTOR LEVER**

If the tractor rockshaft lever is accidentally lowered with a quick-coupler hitch on the tractor, damage can occur to the disk hitch when turning the tractor.

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

B04;;4PT C 140386

Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)