

# JOHN DEERE 1400 AND 2400 SERIES SURFLEX DISK TILLERS



JOHN DEERE

## OPERATORS MANUAL JOHN DEERE 1400 AND 2400 SERIES SURFLEX DISK TILLERS

OMW21316 B2 English

**OMW21316 B2**

LITHO IN THE U.S.A.  
ENGLISH






## 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, service, or trouble shooting. 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.

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 special equipment 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 32. 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.

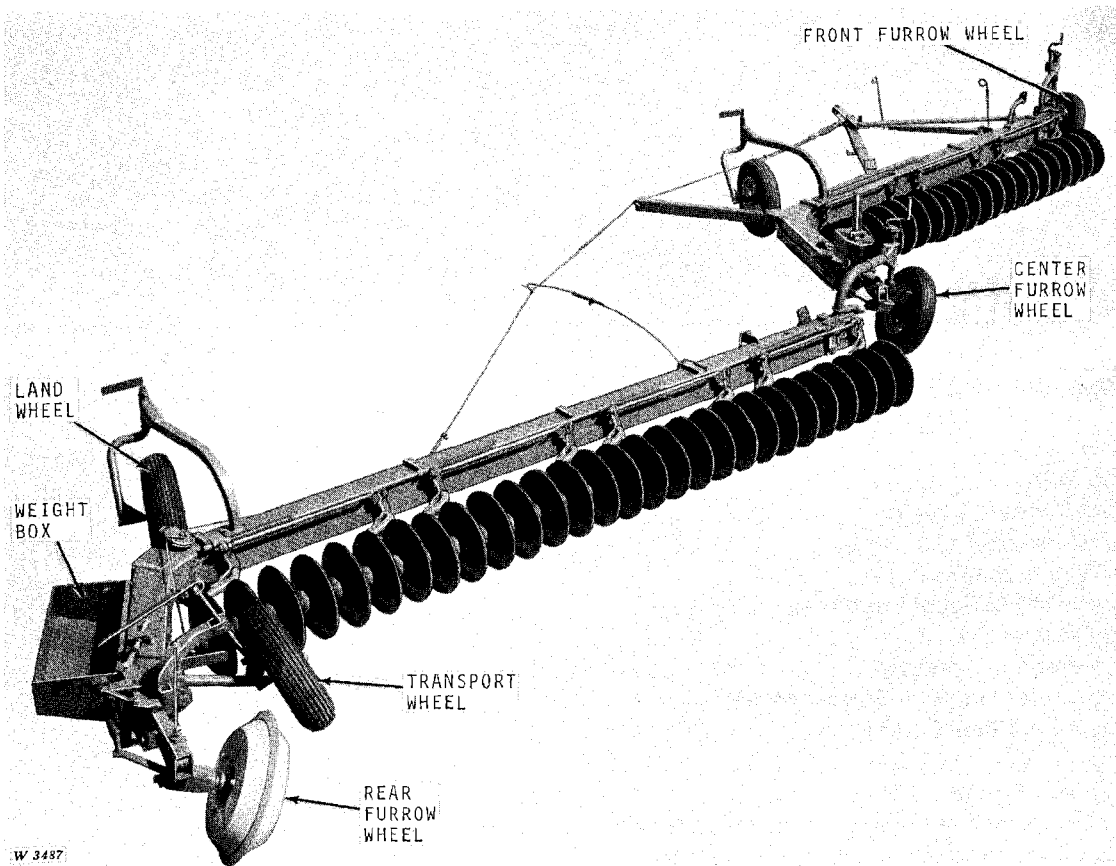
The warranty on this disk tiller appears on your copy of the purchase order which you should have received from your dealer when you purchased the disk tiller.



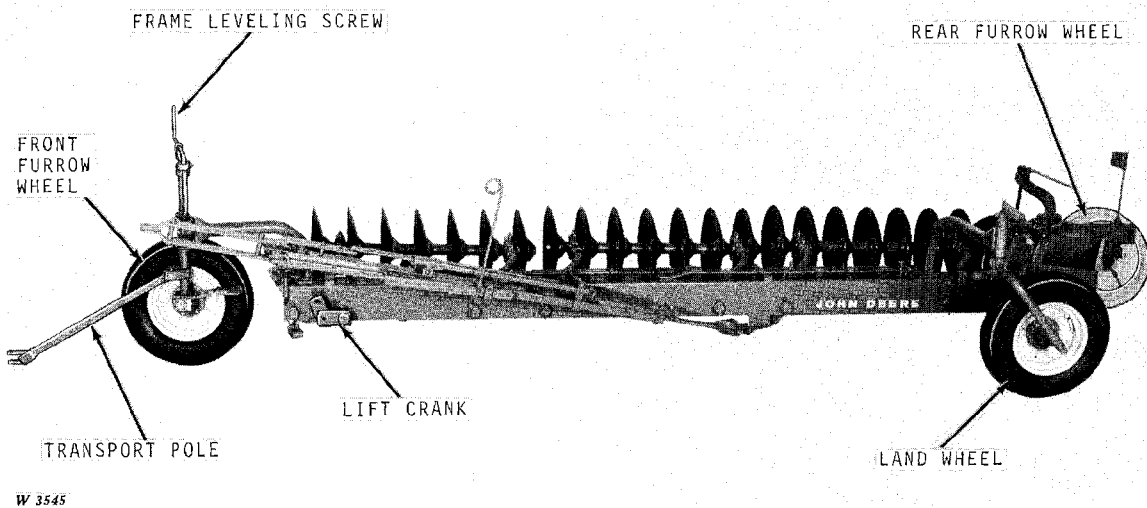
# Contents

---

	Page
IDENTIFICATION VIEWS .....	2
OPERATION .....	3-22
Preparing Tiller .....	3
Preparing Tractor .....	3
Hitching to Tractor .....	4-5
Starting Tiller in the Field .....	5
Adjusting Width of Cut of Front Disk .....	6
Leveling Frame .....	6
Adjusting Steering Arm Stop .....	6
Adjusting Center and Rear Furrow Wheels .....	7
Adjusting Rear Wheel Control .....	8
Adjusting Lift Rod .....	9
Adjusting Disk Gangs .....	9
Setting Tiller for Soft and Hard Ground Conditions .....	10-11
Changing Single Tiller to Full Transport Position .....	12-13
Changing Duplex Tiller to Full Transport Position .....	14-15
Changing Single Tiller to Semi-Transport Position .....	16
Changing Duplex Tiller to Semi-Transport Position .....	17
Changing Single Tiller to Working Position .....	18-19
Changing Duplex Tiller to Working Position .....	20-21
Transporting .....	22
Safety Rules .....	22
LUBRICATION .....	23
SERVICE .....	24
TROUBLE SHOOTING .....	25-28
SPECIAL EQUIPMENT .....	29-30
SPECIFICATIONS .....	31-32



John Deere 1400 Surfex Series 28-Foot Disk Tiller in Working Position



John Deere 1400 Surfex Series 12-Foot Disk Tiller in Transport Position



# Operation

---

## PREPARING TILLER

This tiller will do an excellent job in all soil conditions when properly adjusted. Before entering the field each season, check the following items carefully:

1. Disks should be sharp and free of rust for easier penetration.
2. Tire inflation
  - 6.70-15-inch, 6 PR - 38 psi
  - 9.5L-15-inch, 8 PR - 40 psi
3. Nuts on gang bolts must be tightened to 600 ft-lbs torque.
4. Tiller has been thoroughly lubricated.
5. Tighten all nuts securely.

## PREPARING TRACTOR

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

### Tire Inflation

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

### Rear Wheel Weighting

In 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.

### Liquid Weight

Water and calcium chloride solution is an economical means of adding weight to tractor rear wheels. Calcium chloride solution is recommended rather than plain water as it will not freeze.

### Cast-Iron Weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the tractor rear wheels. See your tractor operator's manual for maximum permissible weight. This type of weight can be secured from your John Deere dealer.

### Rear Wheel Setting

Set tractor tires equidistant from the center line of the tractor.

### Tractor Drawbar

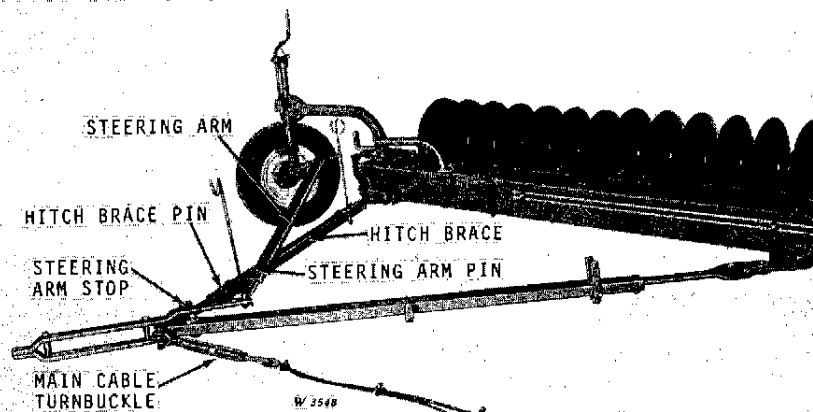
Use tractor with wide swinging drawbar for all size tillers except 7- and 8-foot. Set drawbar so it is free to swing.

The tiller hitch is adjustable for single bar-type or clevis-type tractor drawbars. For single bar-type applications, simply remove the bottom drawbar arm, turn it over and reassemble.

### Rockshaft Selector Lever

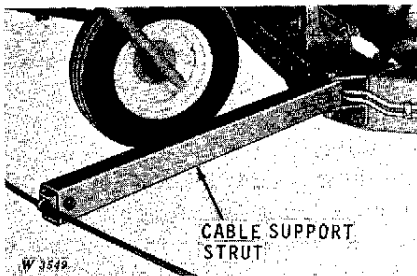
Before attaching tiller to tractor, set the rockshaft selector lever in the "D" position. Keep the selector lever in this position while operating.

## HITCHING TO TRACTOR



### Hitch

The adjustment chart, pages 10 and 11, outlines the suggested hitch settings corresponding to the various cutting widths and tiller sizes.



*NOTE: On duplex tillers, whenever an adjustment is made in the hitch assembly, readjust the main cable turnbuckle and cable support strut to insure that tiller frames remain parallel.*

### Hitch Brace

The adjustable hitch brace permits proper positioning of the front furrow wheel with respect to the tractor. Adjust by removing hitch brace pin and extending or shortening hitch brace. Remove steering arm pin from steering arm when adjusting hitch brace.

Tractors working with tiller sizes:

- a) 7-, 8-, 10-1/2-, 12-, 14- and 16-foot MUST be in the furrow.
- b) 20-, 21-, 24- and 24-1/2-foot may be in the furrow or on the land (optional).
- c) 28-, 32-, 36- and 40-foot MUST be operated on land.

*NOTE: When using tractors with dual wheels, the tractor must be operated on the land.*

When tractor position is optional, working on the land is the most efficient in medium or soft soil conditions. This position serves a three-fold purpose;

- a) Decreases the angle of pull, thereby reducing the tractor's side force and prevents the tiller from falling back.
- b) Increases traction as both rear tractor wheels are on level ground.
- c) Reduces furrow wall compaction allowing easier material movement by the front disk.

*NOTE: Operation in the furrow is recommended for 20, 21-1/2, 24 and 24-1/2-foot machines in hard ground.*

### Steering Arm and Front Furrow Wheel Lead

Whenever the hitch brace is adjusted, readjust the front furrow wheel to run with a slight lead to the right of the line of travel. Adjust by removing pin in steering arm and turning wheel inward or outward.

### Main Drawbar

If necessary, lengthen the main drawbar for additional clearance of the right-hand tractor tire during right turns.

Shorten the main drawbar to increase the angle of pull thus transferring side force from the tiller to the tractor when operating in hard ground.

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)