

F225 SERIES INTEGRAL DISK PLOW



OPERATORS MANUAL F225 SERIES INTEGRAL DISK PLOWS

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Your new plow

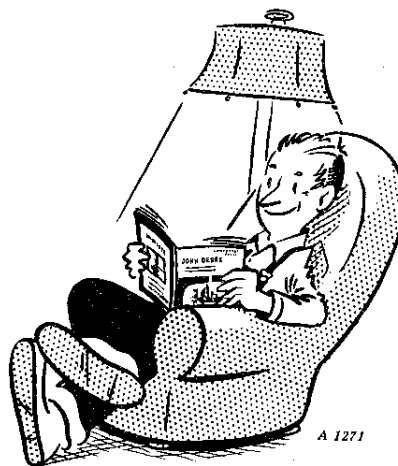
Behind your new plow is an organization that has specialized in designing and building plows for over 125 years. This plow was built in the world's largest plow factory by experienced men, many who have worked in this large plant for from ten to forty-five years, thus assuring the utmost in good design, high-grade workmanship and thorough inspection, so essential to the production of good plows.

High quality materials, precision production methods, and accurately controlled heat-treating assure maximum strength and long life for every part.

This manual has been carefully prepared and illustrated, so that you may make the necessary adjustments for adapting your plow to work properly in practically all types of soil and field conditions. These adjustments, such as proper hitching and adjusting for width and depth of cut, are fully covered in this manual.

Study this manual carefully. Keep it handy, in a safe place, for future reference.

Occasionally your plow may need new parts, or require service not covered in this manual. If so, we



suggest that you take advantage of the facilities offered by your John Deere dealer, which assure you of genuine JOHN DEERE Parts and prompt "know-how" service in the field or shop.

If you will furnish your dealer with the information which should be recorded at the bottom of this page, when the plow is delivered, he can give you prompt and efficient service.

Information concerning the warranty on this plow will be found in your copy of the delivery receipt which you should have received from your dealer when the plow was delivered to you.

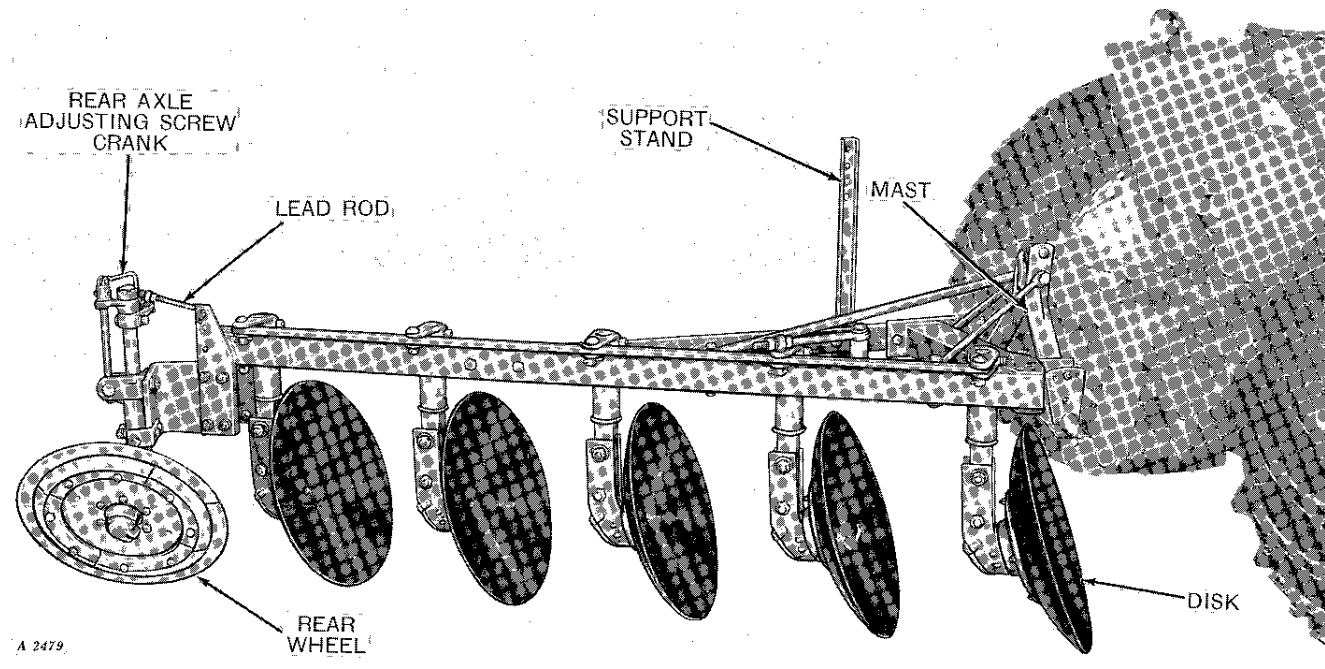
**JOHN DEERE F225 INTEGRAL 3-, 4-, AND
5-FURROW DISK PLOWS**

Date Purchased 19

(To be filled in by Purchaser)

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John Deere F225 Integral 5-Furrow Disk Plow

Specifications

TYPES	<p>F225 Series 3-Furrow Integral Disk Plow for use with John Deere 2010, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors.</p> <p>F225 Series 4-Furrow Integral Disk Plow for use with John Deere 2510, 3010, 3020, 4010, and 4020 Tractors.</p> <p>F225 Series 5-Furrow Integral Disk Plow for use with John Deere 3020, 4010, and 4020 Tractors.</p> <p><i>NOTES: When using a 2020 Tractor equipped with steel rear wheels on flanged axles and 12.4-28 or 13.6-28 tires, the tractor must be equipped with flanged axle extensions to attain the necessary rear wheel settings. See your tractor operator's manual.</i></p> <p><i>The 3020 Row-Crop Tractor must be equipped with Roll-O-Matic or adjustable-tread front axle and the 3020 Standard must be equipped with adjustable-tread front axle.</i></p> <p><i>The Quik-Coupler cannot be used with 3020 Tractors and the 5-furrow plow.</i></p> <p><i>The 5-furrow plow with the 3020 Tractor is recommended for light to average soil conditions only.</i></p>
DISKS	<p>26-Inch Plain - Regular.</p> <p>26-Inch Plain, Inside Plated (Sharpened on the front or inside) - Optional.</p> <p>26- and 28-Inch Plain, Heavy - Optional.</p> <p>26-Inch Plain, Extra Heavy - Optional.</p> <p>26- and 28-Inch Notched - Optional.</p>
DISK SETTING	Two vertical settings and a range of lateral settings.
DISK BEARINGS	Heavy-duty, dustproof, large anti-friction-type.
DISK SCRAPERS	Hoe-Type - Special Equipment.
REAR WHEEL	Fully adjustable. Replaceable steel segments.
REAR WHEEL WEIGHT	One 70-pound weight - Special Equipment.
DEPTH RANGE	To 14 inches.
DEPTH CONTROL	Controlled by tractor hydraulic system.
WIDTH OF CUT	10-1/2 inches per disk.
LIFT	Hydraulically controlled by tractor rockshaft control lever.
LEVELING	Lateral (side-to-side) leveling controlled by leveling cranks on tractor 3-Point Hitch. Fore-and-aft leveling controlled by center link on tractor hitch.

(Specifications and design subject to change without notice.)

NOTE: When the term "right" or "left" is used, it means from a position behind the plow and facing the front.

Operation

Importance of proper adjustment

Your new plow is fully adjustable and, when properly adjusted to operate in the type of soil and field conditions on your farm, it will do a good job of plowing at a minimum of expense. A well-adjusted plow pulls lighter; its furrow slices are uniform in width and depth; it covers trash; it leaves the soil in proper condition to be worked down into the best-type seedbed.

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

Preparing the plow

Disks

The polished surfaces of the plow disks and scrapers 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 those soils where the black paint will not wear off, remove with gasoline, kerosene, or diesel fuel.

CAUTION: Be careful when using any of these fuels so they do not ignite. The plow should be in a well-ventilated area and away from any sparks or flames.

If the plow is not to be used immediately, protect the polished surfaces by applying a coat of cup or gun grease. If plow is to be put in storage for a considerable length of time, see page 18.

Lubrication

Be sure the plow has been properly lubricated. See Lubrication Chart on page 19.

Bolts and set screws

Before starting to work with a new plow or one which has been stored, check to see that all bolts and set screws are tight and all cotter pins spread to keep them from falling out. Check the bolts that hold the plow disks to see that they are drawn up very tight.

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

Preparing and adjusting the 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

NOTE: When the 5-furrow plow is used with a 3020 Tractor, the tractor must be equipped with maximum allowable rear wheel ballast. See your tractor operator's manual.

In those conditions where it becomes necessary to add weight to the rear wheels, the following information will be helpful.

Power can be lost and tire life cut drastically by excessive wheel slippage. Adding weight also serves to stabilize the tractor for 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 weights

Water and calcium chloride solution is an economical means of adding weight to rear wheels. Calcium chloride is recommended rather than water as it will not freeze. See your tractor operator's manual or your John Deere dealer.

Cast-iron weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. This type of weight can be secured from your John Deere dealer.

For plowing, best results are generally obtained by taking one weight from the furrow wheel and adding it to the land wheel. Tilting of the tractor places more weight than normal on the furrow wheel. Addition of weight to the land wheel provides more uniform weight distribution over the rear wheels.

Tractor drawbar

Set the tractor drawbar in the short high position and bolt it to the extreme left side of the support.

Rear wheel setting

Set the rear wheels 28 inches from center line of tractor to inside of tires.

NOTES: Set the rear wheels 26 inches from center line of tractor to inside of tires when using inside-plated disks.

When using a 2020 Tractor equipped with steel rear wheels on flanged axles and 12.4-28 or 13.6-28 tires, the tractor must be equipped with flanged axle extensions to attain the necessary rear wheel settings. See your tractor operator's manual.

Front wheel setting

On wide-front-axle tractors, set front wheels to conform to rear wheel setting.

NOTE: Tractors equipped with fixed-tread front axles cannot be used with the F225 Plows.

6 operation

Front end weighting

For those plow and tractor combinations which require additional front end weighting for transport stability purposes, add front end

weights to tractor as shown in chart below. Cast-iron front end weights may be secured from your John Deere dealer.

TOTAL FRONT WEIGHT REQUIRED FOR TRANSPORT STABILITY

	3-Furrow	4-Furrow	5-Furrow
2010 Row-Crop	100 lbs.	Not Recommended	Not Recommended
2010 Row-Crop Utility . . .	100 lbs.	Not Recommended	Not Recommended
2020 RU	400 lbs.	Not Recommended	Not Recommended
2020 HU	300 lbs.	Not Recommended	Not Recommended
2510 Row-Crop			
Single Front Wheel . . .	0	700 lbs.	Not Recommended
Dual Front Wheel	0	700 lbs.	Not Recommended
Roll-O-Matic	0	700 lbs.	Not Recommended
Adjustable Tread	0	400 lbs.	Not Recommended
3010 Row-Crop			
Single Front Wheel . . .	0	650 lbs.	Not Recommended
Dual Front Wheels with Roll-O-Matic	0	550 lbs.	Not Recommended
Adjustable-Tread Front Axle	0	200 lbs.	Not Recommended
3020 Row-Crop			
Single Front Wheel . . .	0	500 lbs.	Not Recommended
Dual Front Wheels with Roll-O-Matic	0	400 lbs.	Maximum Ballast*
Adjustable-Tread Front Axle	0	200 lbs.	Maximum Ballast*
3010 Standard			
Adjustable-Tread Front Axle:			
Short Wheelbase	0	250 lbs.	Not Recommended
Long Wheelbase	0	200 lbs.	Not Recommended
3020 Standard			
Adjustable-Tread Front Axle	0	300 lbs.	Maximum Ballast*
3010 Row-Crop Utility			
Adjustable-Tread Front Axle:			
Short Wheelbase	0	400 lbs.	Not Recommended
Long Wheelbase	0	300 lbs.	Not Recommended
3020 Row-Crop Utility			
Adjustable-Tread Front Axle	0	300 lbs.	Not Recommended

**Maximum ballast is a total of two side and eight front end weights plus liquid solution in front tires. This is necessary for proper control while working and transporting.*

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