

F W A DISK HARROW



OPERATORS MANUAL F W A DISK HARROW

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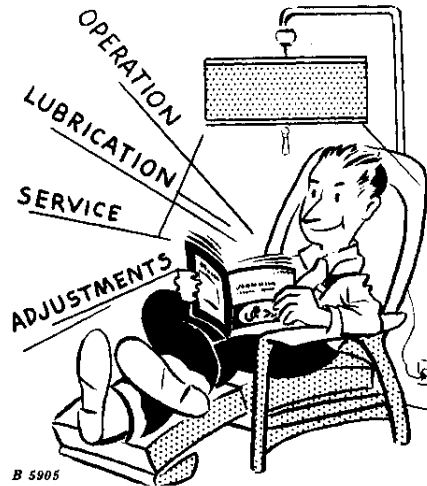
To the purchaser

Your new FWA Disk Harrow is sturdy and dependable. It will give long and efficient service if given proper care and operation.

This Operator's Manual is provided to furnish information on the proper operation, adjustment, maintenance, and lubrication of your new disk harrow.

When in need of parts, see your John Deere dealer. He will furnish genuine John Deere Parts and prompt and efficient service in the field or in the shop.

Right-hand and left-hand reference is determined by standing at the rear of the disk harrow and facing the direction of travel.



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

John Deere FWA Disk Harrow

Check off size of your disk harrow, disk blade size, special equipment obtained, and record date purchased. This information will be valuable whenever ordering parts.

Size

13-Ft. 10-In.

17-Ft. 10-In.

20-Ft. 6-In.

Blade Size

18-In.

20-In.

Scrapers

Furrow Leveling Blades . . .

Furrow Filler Attachment . .

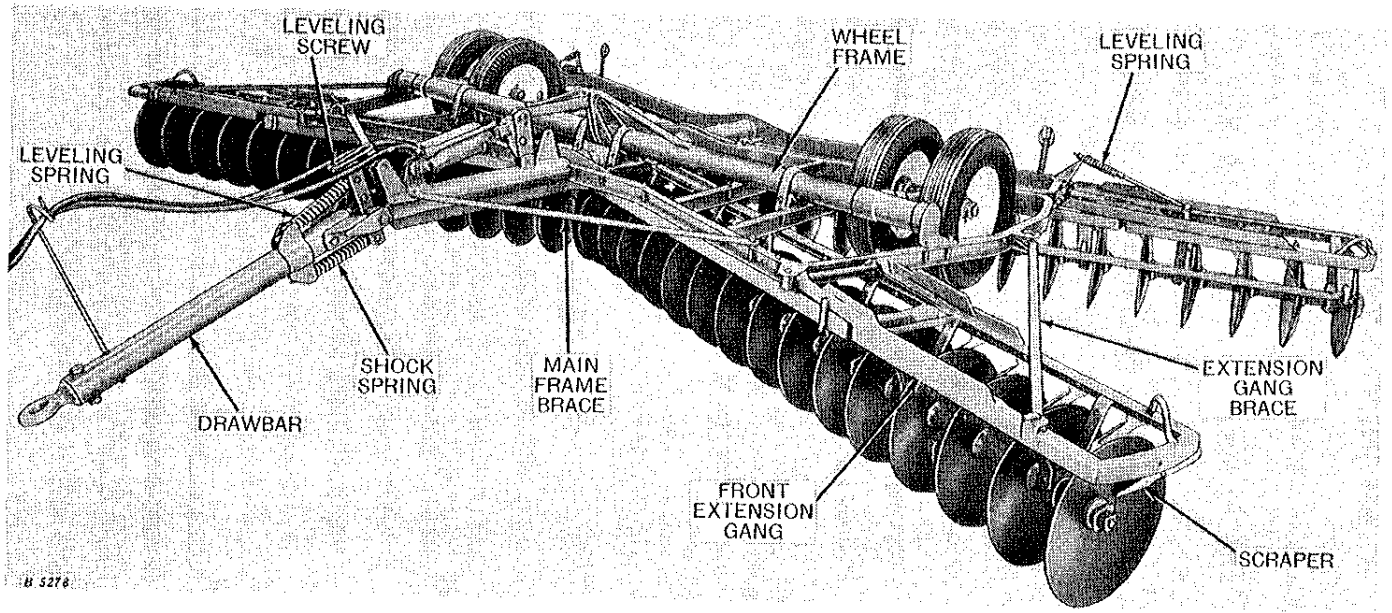
Middlebreaker

Date Purchased

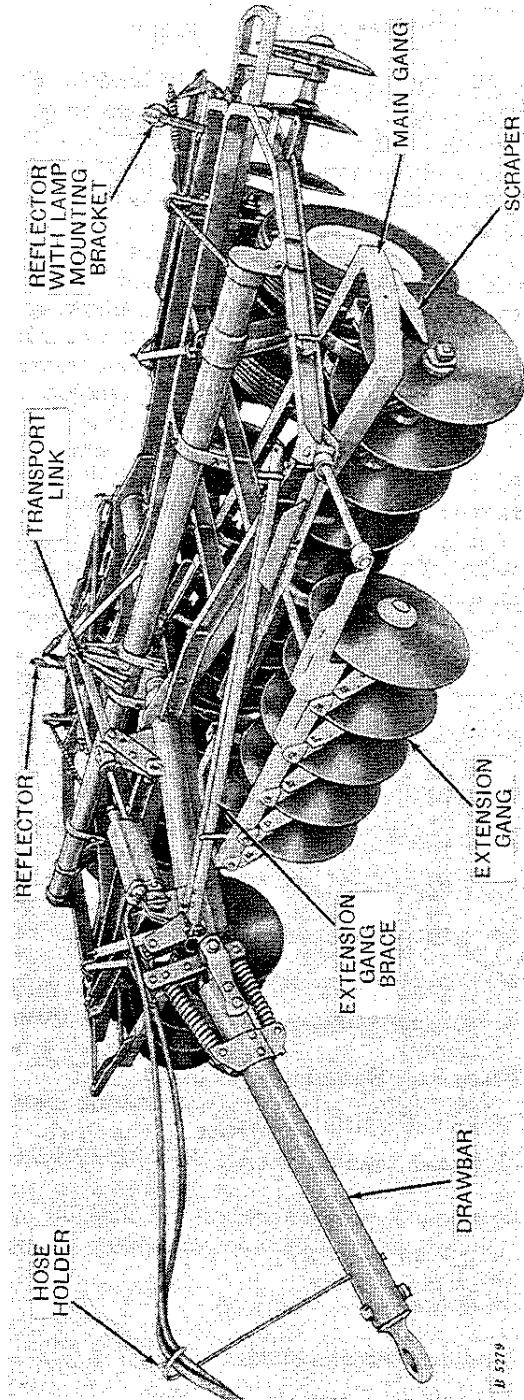
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THE COMPLETE OBSERVANCE of one simple rule would prevent many thousand serious injuries each year. THAT RULE IS: "NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST A MACHINE WHILE IT IS IN MOTION."



John Deere FWA 20-foot, 6-inch Disk Harrow in working position



John Deere FWA 20-foot, 6-inch Disk Harrow in transport position

Specifications

The John Deere FWA Disk Harrow is a double-action, wheel-carried, disk harrow for use with wheel or track-type tractors equipped with an 8-inch standard ASAE-SAE remote hydraulic cylinder.

The disk gangs are set at a fixed angle, and the complete rear section of the harrow can swivel on the main frame pipe, allowing flexibility between the front and rear sections. The four extension gangs are free to flex upward and can be folded around for transporting.

Two heavy cushion springs are located on the drawbar and main frame hinge joint. The top spring is for automatic leveling of the disk harrow, and the bottom spring absorbs shock loads when transporting.

Disk Harrow Model	Actual Width of Cut	Size of Blades	No. of Disks
FWA4018	13' 10"	18"	40
FWA4020	13' 10"	20"	40
FWA5218	17' 10"	18"	52
FWA5220	17' 10"	20"	52
FWA6018	20' 6"	18"	60
FWA6020	20' 6"	20"	60

Disking Depth - Controlled by raising or lowering the carrying wheels with the hydraulic cylinder.

Disk Blades - 18-inch or 20-inch solid or cut-out disk blades are available.

Disk Spacing - 8-1/2-inch spacing, front and rear.

Scrapers - Two-piece, spring-loaded scrapers are regular equipment. Heavy-duty two-piece, spring-loaded scrapers are optional.

Transport Width - 14 feet, 6 inches with the extension gangs folded.

Carrying Wheels - Dual 14-inch wheels with automotive type, adjustable tapered roller bearings. (8:00 x 14 or 8:50 x 14 tires are recommended for more transport clearance and better flotation.)

Leveling - Adjusting hand screw on disk harrow drawbar levels disk harrow for various tractor drawbar heights. Extension gangs can be leveled in relation to main gangs with spacer washers between the extension gangs and the outer ends of the main gang frames.

Special equipment

No. 9 Combination Tillage and Planter Hitch - Use with the 13-foot 10-inch FWA and the 493A, 494A, 495A, or the No. 9A Combination Tillage and Planter Hitch with the 694AN Planter to combine the tillage and planting operation.

Outside Furrow Leveling Blade or Furrow Filler Attachment - These attachments will fill and level the furrow left by the outer rear gang disk blades when disking in plowed or loose ground.

Middlebreaker Attachment - A spring-tooth middlebreaker that cuts out the center strip left by the front disk gangs.

Drive Spool for Split or Extension Gangs - The drive spool will connect the split gangs together or connect the extension gangs to the main frame for positive gang drive under certain disking conditions.

(Specifications and design subject to change without notice.)

Operation

Hydraulic control

The FWA disk harrow will operate with any wheel or track-type tractor equipped with an 8-inch standard ASAE-SAE remote hydraulic cylinder.

The hydraulic cylinder controls the disking depth, as well as raising and lowering the harrow for disking or transporting.

Attaching to or detaching from the tractor

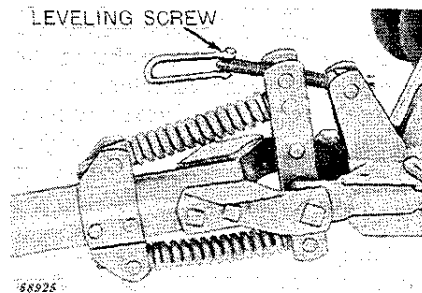
The disk harrow must be in the raised position before attaching to or detaching from the tractor drawbar because of the tension in the upper spring of the disk harrow drawbar.

Back the tractor up to the disk harrow and install the remote hydraulic cylinder on the disk harrow. If the disk harrow is not in the transport position, raise it with the cylinder and attach the disk harrow drawbar to the tractor drawbar.

When detaching the disk harrow from the tractor, be sure it is in the raised position before pulling the drawbar pin and driving the tractor away from the disk harrow.

CAUTION: Lock the tractor drawbar in a fixed position when transporting.

Leveling screw adjustment



After the disk harrow is attached to the tractor, adjust the leveling screw, so the main frame is level. Turning the leveling screw clockwise will lower the rear section, and turning the leveling screw counterclockwise will raise the rear section.

In field operation, additional adjustment of the leveling screw may be necessary to obtain uniform penetration of the front and rear gangs.

NOTE: For best results when disking, the tractor drawbar should be free to swing.

Tire inflation

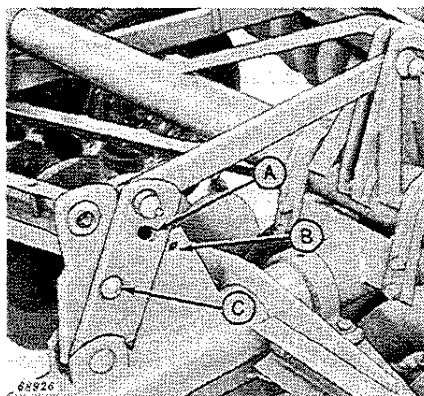
Inflate the tires to the manufacturer's recommendations.

Transporting

CAUTION: When transporting the disk harrow on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Lock the tractor drawbar in a fixed position when transporting the disk harrow. Do not transport the disk harrow over 12 miles per hour on a smooth surface road, and reduce the speed considerably when traveling over rough ground.

Transport link

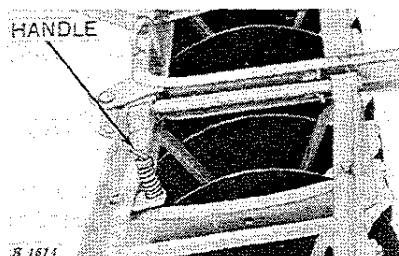


The disk harrow can be held in the raised position for transporting or storage without the remote hydraulic cylinder.

Fully extend the cylinder so that holes "A" and "B" line up. Remove pin "C," and insert it through holes "A" and "B." Then remove the hydraulic cylinder and the disk harrow will stay in the raised position.

Extension gangs

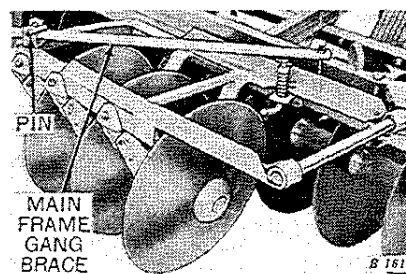
The extension gangs on the 17-foot, 10-inch or 20-foot, 6-inch sizes can be folded around for transporting. This reduces the over-all width of the disk harrow to 14 feet 6 inches for passing through gates or transporting on the highway.



On the 17-foot, 10-inch size turn the handle on each front extension gang to release the extension gang from the main frame. Pull the pin which holds each rear extension gang brace.

On the 20-foot, 6-inch size pull the pin on each front and rear extension gang brace.

Fold the front extension gangs forward and the rear extension gangs rearward.



Left-front extension gang in transport position—17-foot, 10-inch size

On the 17-foot, 10-inch size pin the front extension gangs to the main frame braces.

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