

RW DISK HARROW



OPERATORS MANUAL RW DISK HARROW

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TO THE PURCHASER

Your new John Deere Model "RW" 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. A parts list, with illustrations, is provided.

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 shop.

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



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

**JOHN DEERE MODEL "RW" TRACTOR
DISK HARROW**

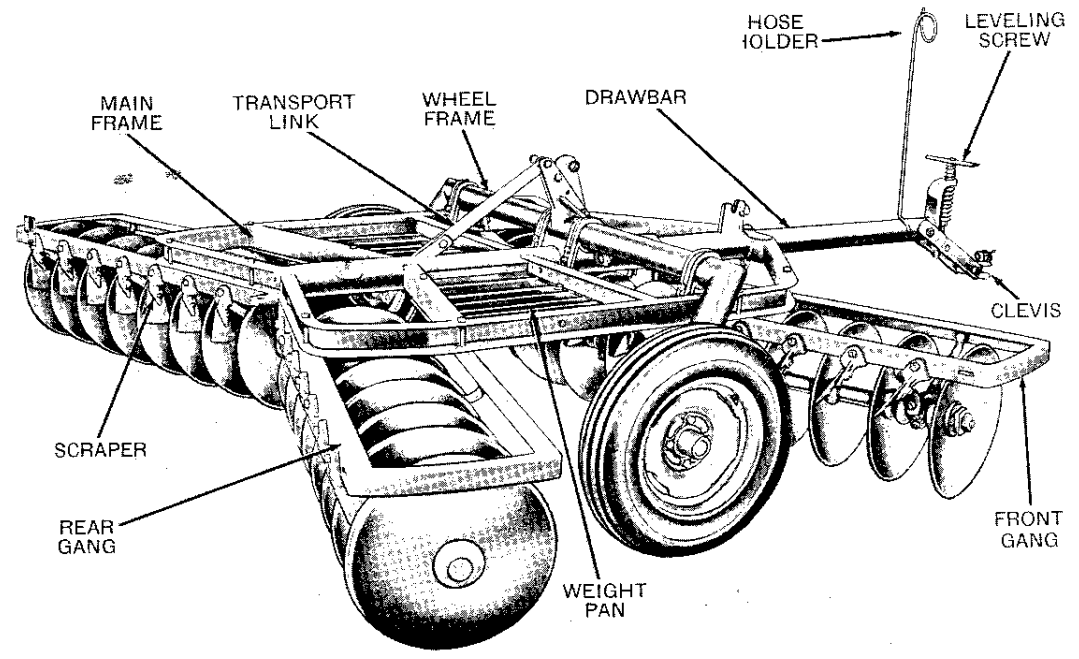
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THE COMPLETE OBSERVANCE of one simple rule would prevent many thousand serious injuries each year. THAT RULE IS: "NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST A MACHINE WHILE IT IS IN MOTION."



B 299

John Deere 9-Foot Model "RW" Wheel-Type Disk Harrow

DESCRIPTION

The Model "RW" is a rigid type wheel carried disk harrow, designed for use with tractors having a standard ASAE-SAE hydraulic remote cylinder. It has the carrying wheels as standard equipment and cannot be used without them. The wheel bearings are automotive type, adjustable tapered roller bearings that have no moving parts on the spindle to cause wear.

No adjustment is provided for changing the angle of the gangs, the depth of penetration being entirely regulated by moving the carrying wheels up or down with the tractor hydraulic cylinder.

The harrow has a tubular drawbar that extends through the main frame forming a rigid backbone. Because of this type drawbar, no side links are needed, therefore, very short turns can be made. The forward end of the drawbar can be removed by taking out one pin, making it possible to store the harrow in a small space.

Built-in weight pans will accommodate weight for hard ground conditions and the weight can be quickly removed for soft ground conditions, making this a dual-purpose harrow. Consult weight table for pounds of weight that can be added. Provision is also made for pulling tools, such as drag harrows or cultipackers.

A special wide wheel frame is available for use in bedded crop areas. The tread on this wheel frame is 156 inches and it can be assembled on any 10-, 12-, 13-, or 14-foot "RW" Harrow. On the 10- and 12-foot sizes, the wheels extend beyond the outer end disks.

The only adjustment on the "RW" is at the front end of the drawbar. This consists of a hand screw to level the harrow for suitable disking in the field and for various tractor drawbar heights. Upper and lower cushion springs are provided to absorb shocks encountered when disking and transporting. The lower spring also acts as a leveling spring, which compresses when working, and extends when harrow is raised, keeping harrow gangs level and giving a parallel lift for more transport clearance.

SPECIFICATIONS

Model	Size	Actual Width of Cut	No. of Disks	Size of Disk	Model	Size	Actual Width of Cut	No. of Disks	Size of Disk
716	7'	7' 6"	24	16"	1216	12'	12' 2"	40	16"
718	7'	7' 6"	24	18"	1218	12'	12' 2"	40	18"
720	7'	7' 6"	24	20"	1220	12'	12' 2"	40	20"
816	8'	8' 8"	28	16"	1316	13'	13' 4"	44	16"
818	8'	8' 8"	28	18"	1318	13'	13' 4"	44	18"
820	8'	8' 8"	28	20"	1320	13'	13' 4"	44	20"
916	9'	9' 10"	32	16"	1416	14'	14' 6"	48	16"
918	9'	9' 10"	32	18"	1418	14'	14' 6"	48	18"
920	9'	9' 10"	32	20"	1420	14'	14' 6"	48	20"
1016	10'	11'	36	16"					
1018	10'	11'	36	18"					
1020	10'	11'	36	20"					

NOTE: Disk spacing is 7-1/8-inch. 18- and 20-inch cut-out disk blades are available. 16-, 18-, and 20-inch solid disk blades are available.

NOTE: All the above sizes are available with or without straight scrapers. Hard metal bearings are regular equipment and anti-friction bearings are available as special equipment.

SPECIAL EQUIPMENT

Middlebreaker Attachment (Bundle No. 4181B)—A spring-tooth middlebreaker that cuts out the center strip left by the front disk gangs is available.

Outside Furrow Leveling Blade (Bundle No. 4402B)—This attachment will till and level the furrow left by the outer rear gang disk blades when disking in plowed or loose ground.

End Scrapers (Bundle No. BB10247B)—End scrapers for the outer disks on the front gangs and the inner disks on the rear gangs are available when needed in sticky soils.

Lift-All Cylinder Adapter (Bundle No. 4239B)—This permits the disk harrow to be used with an IHC Tractor equipped with two one-way "Lift-All" hydraulic cylinders.

(Specifications and design subject to change without notice.)

OPERATION

HYDRAULIC CONTROL

The Model "RW" Disk Harrow will operate with a John Deere Tractor with hydraulic remote cylinder or any other tractor using a remote cylinder that conforms to ASAE-SAE Standards.

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

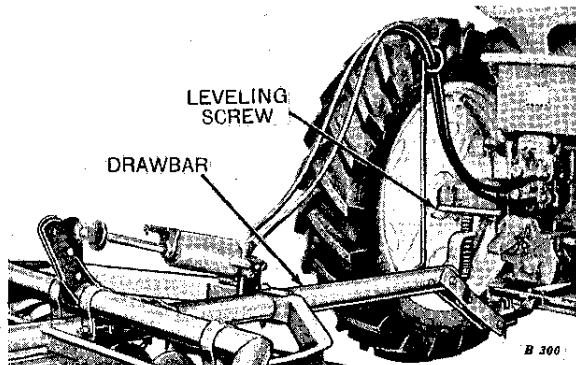
ATTACHING TO TRACTOR

The harrow should be connected to the tractor with the drawbar approximately parallel with the ground.

Important: Lock tractor drawbar in fixed position when transporting. For best results when disking, tractor drawbar should be in swinging position.

After harrow is connected to tractor, attach hydraulic cylinder and hose, as shown below.

LEVELING SCREW ADJUSTMENT



After the disk harrow has been hitched to the tractor and the hydraulic cylinder attached, raise the harrow in lifted position and adjust leveling screw so disk harrow main frame is level. Shortening the screw (turning clockwise) will raise the rear section. Lengthening the screw (turning counter-clockwise) will lower the rear section.

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

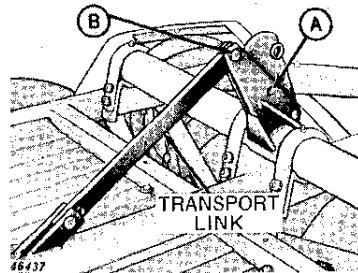
DISKING DEPTH

The depth of disking is controlled by raising or lowering the wheels with the hydraulic cylinder. Raising the wheels will allow the disk to penetrate deeper into the ground. Lowering of the wheels will decrease the penetration of the disk harrow.

TRANSPORT LINK


The transport link can be used to hold the harrow in lifted position when the hydraulic remote cylinder is removed.

To put the link in position shown, proceed as follows: Fully extend cylinder, then remove pin from hole "A," line up hole in end of transport link, with hole in lift arm and insert pin as shown at "B." This will hold harrow in lifted position and cylinder can now be removed.



TRANSPORTING

Lock tractor drawbar in a fixed position when transporting disk harrow. For best results when disking, tractor drawbar should be free to swing. Do not transport disk harrow over 12 miles per hour.

 When transporting the 8-, 9-, 10-, 12-, 13-, or 14-foot harrow on a public road at night or during other periods of poor visibility, use a warning lamp in socket provided on the extreme left-hand side of the harrow.

A warning lamp, that may be used with other implements, can be purchased from your John Deere dealer.

WEIGHTING HARROW

The chart below gives the amount of weight that can be added to each size disk harrow and the size of tractor required to operate each harrow.

Size of Disk Harrow	Maximum Weight That Can Be Placed in Weight Pan	Recommended John Deere Tractors
7' and 8'	200 lbs.	"530"- "630"- "730" "520"- "620"- "720" "50"- "60"- "70"
9' and 10'	275 lbs.	"630"- "730" "620"- "720" "60"- "70"
12' and 13'	350 lbs.	"630"- "730" "620"- "720" "60"- "70"
14'	350 lbs.	"730"- "720"- "70"

CAUTION: Do not overweight your disk harrow.

TIRE SIZES

5:90 x 15, 6:40 x 15, 6:70 x 15, 7:10 x 15, or 7:60 x 15 tires can be used on the "RW" Disk Harrow.

TIRE INFLATION

Disk Harrow Size	Pressure Recommended (Pounds)
7' or 8'	20
9'	22
10'	24
12' or 13'	26
14'	28

SCRAPERS

If disk harrow is equipped with scrapers, adjust each blade so the scraping edge of blade is flush against disk and makes good contact its entire width.

SAFETY SUGGESTIONS

When transporting the disk harrow on a public road at night or during other periods of poor visibility, use a warning lamp on the extreme left-hand side of the tractor or disk harrow, whichever extends farther to the left.

When transporting on a public road during the day, hang a red flag prominently on the rear of the disk harrow.

Care should be exercised, during the operation of a disk harrow, to avoid injury to the operator and his assistants.

Do not grease, oil, or adjust a farm machine that is in motion.

Only one person—the operator—should be permitted on the tractor platform when the tractor and disk harrow are in operation.

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

When hitching tractor to disk harrow, back the tractor past the clevis. Then move forward, so that, in making the connection, the tractor will be moving away from you.

Block the wheels so disk harrow will not roll when disconnected from tractor drawbar.

When leaving the tractor and disk harrow, connect transport link or lower the disk harrow to the ground.

Connect transport link when transporting disk harrow long distances.

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