

BW, BWN and BWS Disk Harrows



JOHN DEERE

OPERATORS MANUAL

BW, BWN and BWS
Disk Harrows

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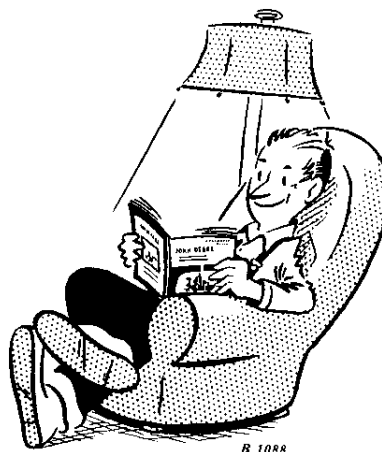
TO THE PURCHASER

Your new BW, BWN or BWS 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.



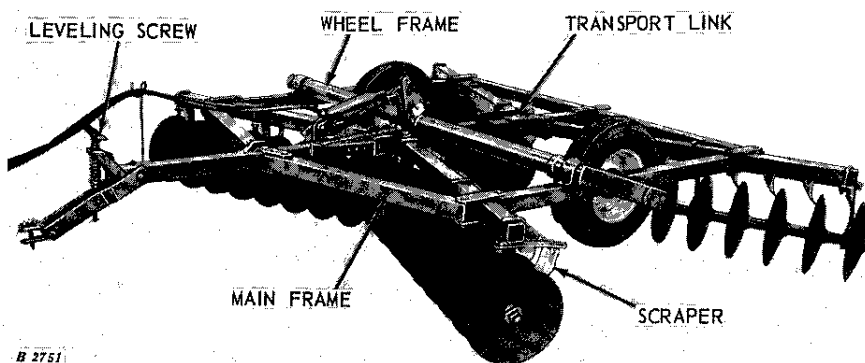
Study this manual carefully. Keep it handy, in a safe place, for future reference.

JOHN DEERE BW, BWN OR BWS DISK HARROW	
Check off size of your disk harrow, disk blade size, special equipment obtained, and record date purchased. This information will be valuable when ordering parts.	
DISK HARROW SIZE	
BW 8-Ft., 6-In	<input type="checkbox"/>
BW 9-Ft., 10-In	<input type="checkbox"/>
BW 11-Ft., 2-In	<input type="checkbox"/>
BWS 12-Ft., 2-In	<input type="checkbox"/>
BW 12-Ft., 6-In	<input type="checkbox"/>
BWN 13-Ft., 4-In	<input type="checkbox"/>
BWS 13-Ft., 4-In	<input type="checkbox"/>
BW 13-Ft., 10-In	<input type="checkbox"/>
BW 15-Ft., 2-In	<input type="checkbox"/>
BW 16-Ft., 6-In	<input type="checkbox"/>
	BLADE SIZE
	18-In
	20-In
	22-In
	Hitch Loop
	Middlebreaker
	Dual Wheels
	Spike Tooth Harrow
	End Scraper Attachment
	Furrow Filler
	Drive Coupler
	Multiple Hitch Attachment
	Date Purchased



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John Deere 12-Foot, 6-Inch BW Disk Harrow



SPECIFICATIONS

The John Deere BW, BWN, and BWS Disk Harrows are double action, heavy duty, rigid, wheel-carried disk harrows. They can be used with John Deere Tractors equipped with an 8-inch stroke remote hydraulic cylinder, or any other tractor using an 8-inch stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

On BW Disk Harrows the disk spacing is 8-1/2 inches. On BWN Disk Harrows the disk spacing is 7-1/8 inches. On BWS Disk Harrows the front disk spacing is 8-1/2 inches and the rear disk spacing is 7-1/8 inches. All disk gangs have 1-1/4 inch square gang bolts and double tapered roller bearings.

The angle of the gangs can be changed quickly and easily, and the front and rear gangs can be angled independently of each other.

Upper and lower cushion springs on the hitch absorb shocks encountered when disking and transporting. The lower spring also acts as a leveling spring, which compresses when working, and extends when the harrow is raised, keeping harrow gangs level and giving a parallel lift for more transport clearance.

A hitch is provided on the rear of the harrow for pulling such equipment as a spike tooth harrow.

DISKING DEPTH - Controlled by raising or lowering the carrying wheels with the hydraulic cylinder, and the angle of the disk gangs.

LEVELING - Adjusting hand screw on harrow levels the harrow for various tractor drawbar heights.

CARRYING WHEELS - 14-inch wheels with automotive type, adjustable, tapered roller bearings. 15-inch wheels are optional.

WHEEL TREAD - 80 inches when wheels are mounted on inside of wheel frame. 120 inches when wheels are mounted on outside of wheel frame.

DUAL WHEELS - Dual wheels are regular on the 17-foot, 10-inch-19-foot, 2-inch - and 20-foot, 6-inch BW Disk Harrows. They are available as special equipment for all other sizes except the 8-foot, 6-inch and the 9-foot, 10-inch BW Disk Harrows.

DISK BLADES - Regular or Cone - 18-inch, 20-inch, or 22-inch solid or cut-out disk blades are available.

FURROW FILLER ATTACHMENT - Will fill and level the furrow left by rear gang outer disk blades. 14-, 16- or 18-inch disk blades are recommended for this attachment, depending on size of disk blades on disk harrow. (See page 10.)

HITCH LOOP - Optional for use on disk harrow when tractor drawbar is equipped with hammerstrap.

END SCRAPER ATTACHMENT - To clean outside front disk and inside rear disks.

DRIVE COUPLER FOR EXTENSION GANGS - Will connect the extension gangs to the main gangs for positive gang drive.

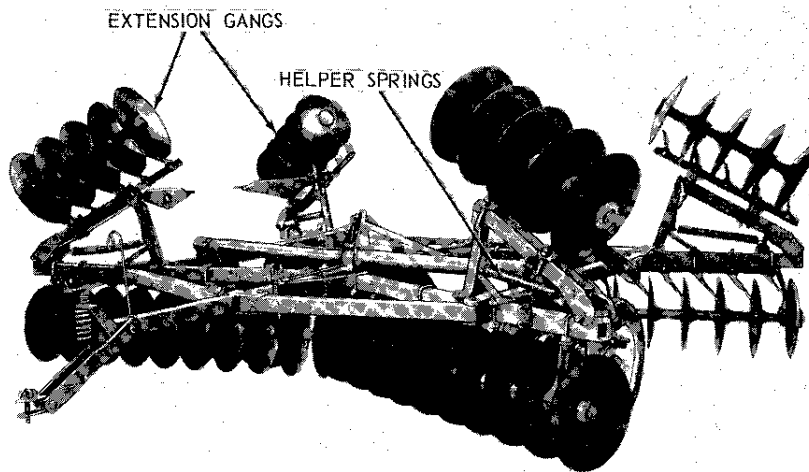
SPIKE-TOOTH HARROW ATTACHMENT - Attaches to rear of harrow for disking and harrowing in one operation. Available for all sizes except when equipped with folding extension gangs.

EXTENSION GANGS (BW DISK HARROWS) - The 16-foot, 6-inch - 17-foot, 10-inch - and the 20-foot, 6-inch - BW Disk Harrow is equipped with extension gangs. The following chart gives the transport width and the width of cut when harrow is used with extension gangs folded:

MIDDLEBREAKER ATTACHMENT - A spring-tooth middle-breaker which cuts out the center strip left by the front disk gangs.

SCRAPERS - One-piece scrapers are regular equipment. Regular and heavy-duty two-piece, spring-loaded scrapers are optional.

Size of BW Disk Harrow	Transport Width with Extension Gangs Folded	Width of Cut with Extension Gangs Folded	Number of Blades	
			Each Main Gang	Each Extension Gang
16-Ft., 6-In.	11-Ft., 6-In.	11-Ft., 2-In.	8	4
17-Ft., 10-In.	11-Ft., 6-In.	11-Ft., 2-In.	8	5
19-Ft., 2-In.	14-Ft., 2-In.	13-Ft., 10-In.	10	4
20-Ft., 6-In.	14-Ft., 2-In.	13-Ft., 10-In.	10	5



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John Deere 20-Foot, 6-Inch BW Disk Harrow with Extension Gangs in Transport Position

4 Specifications

SPECIFICATIONS - CONTINUED

Model	Width of Cut	Spacing		No. of Blades	Size of Blades
		Front	Rear		
BW 2418	8-Ft., 6-In.	8-1/2"	8-1/2"	24	18"
BW 2420	8-Ft., 6-In.	8-1/2"	8-1/2"	24	20"
BW 2422	8-Ft., 6-In.	8-1/2"	8-1/2"	24	22"
BW 2818	9-Ft., 10-In.	8-1/2"	8-1/2"	28	18"
BW 2820	9-Ft., 10-In.	8-1/2"	8-1/2"	28	20"
BW 2822	9-Ft., 10-In.	8-1/2"	8-1/2"	28	22"
BW 3218	11-Ft., 2-In.	8-1/2"	8-1/2"	32	18"
BW 3220	11-Ft., 2-In.	8-1/2"	8-1/2"	32	20"
BW 3222	11-Ft., 2-In.	8-1/2"	8-1/2"	32	22"
BW 3618	12-Ft., 6-In.	8-1/2"	8-1/2"	36	18"
BW 3620	12-Ft., 6-In.	8-1/2"	8-1/2"	36	20"
BW 3622	12-Ft., 6-In.	8-1/2"	8-1/2"	36	22"
BWS 3618	12-Ft., 2-In.	8-1/2"	7-1/8"	36	18"
BWS 3620	12-Ft., 2-In.	8-1/2"	7-1/8"	36	20"
BWS 3622	12-Ft., 2-In.	8-1/2"	7-1/8"	36	22"
BW 4018	13-Ft., 10-In.	8-1/2"	8-1/2"	40	18"
BW 4020	13-Ft., 10-In.	8-1/2"	8-1/2"	40	20"
BW 4022	13-Ft., 10-In.	8-1/2"	8-1/2"	40	22"
BWS 4018	13-Ft., 4-In.	8-1/2"	7-1/8"	40	18"
BWS 4020	13-Ft., 4-In.	8-1/2"	7-1/8"	40	20"
BWS 4022	13-Ft., 4-In.	8-1/2"	7-1/8"	40	22"
BW 4418	15-Ft., 2-In.	8-1/2"	8-1/2"	44	18"
BW 4420	15-Ft., 2-In.	8-1/2"	8-1/2"	44	20"
BW 4422	15-Ft., 2-In.	8-1/2"	8-1/2"	44	22"
BWN 4418	13-Ft., 4-In.	7-1/8"	7-1/8"	44	18"
BWN 4420	13-Ft., 4-In.	7-1/8"	7-1/8"	44	20"
BWN 4422	13-Ft., 4-In.	7-1/8"	7-1/8"	44	22"
BW 4818	16-Ft., 6-In.	8-1/2"	8-1/2"	48	18"
BW 4820	16-Ft., 6-In.	8-1/2"	8-1/2"	48	20"
BW 4822	16-Ft., 6-In.	8-1/2"	8-1/2"	48	22"
BW 5218	17-Ft., 10-In.	8-1/2"	8-1/2"	52	18"
BW 5220	17-Ft., 10-In.	8-1/2"	8-1/2"	52	20"
BW 5222	17-Ft., 10-In.	8-1/2"	8-1/2"	52	22"
BW 5618	19-Ft., 2-In.	8-1/2"	8-1/2"	56	18"
BW 5620	19-Ft., 2-In.	8-1/2"	8-1/2"	56	20"
BW 5622	19-Ft., 2-In.	8-1/2"	8-1/2"	56	22"
BW 6018	20-Ft., 6-In.	8-1/2"	8-1/2"	60	18"
BW 6020	20-Ft., 6-In.	8-1/2"	8-1/2"	60	20"
BW 6022	20-Ft., 6-In.	8-1/2"	8-1/2"	60	22"

(Specifications and design subject to change without notice.)



OPERATION

PREPARING DISK HARROW

Inflate the disk harrow tires to 30 pounds pressure.

Lubricate the disk harrow as instructed on page 13.

The BW, BWN, or BWS Disk Harrow can be used with any tractor equipped with an 8-inch stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

PREPARING TRACTOR

Refer to your tractor operator's manual for wheel weighting instructions and tire inflation pressures.

On John Deere 2010, 2020, 2510, 3010, 3020, 4010, 4020, 5010, or 5020 Tractor equipped with rear rockshaft, set the selector lever in the "D" position.

If the tractor has an adjustable swinging drawbar, position it in the long, low position.

ATTACHING TO OR DETACHING FROM THE TRACTOR

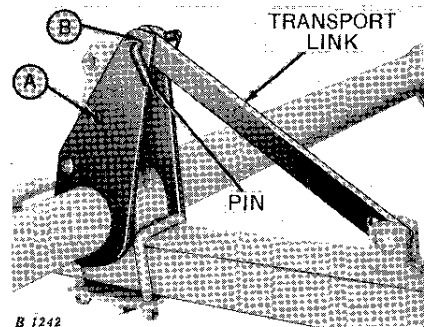
The disk harrow must be in the raised position before attaching it to, or detaching it from, the tractor drawbar.

Back the tractor up to the disk harrow, install the remote hydraulic cylinder on the disk harrow, and place the hoses in the hose holder. 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 the disk harrow is in the raised position and the remote hydraulic cylinder hoses are disconnected before pulling the drawbar pin and driving the tractor away from the disk harrow.

TRANSPORTING

Use the transport link to hold disk harrow in a raised position for transporting or storage.



To connect the transport link: (1) Fully extend the remote hydraulic cylinder. (2) Remove the pin from hole "A." Line up the slotted hole in the end of the transport link with hole "B," and install the pin.

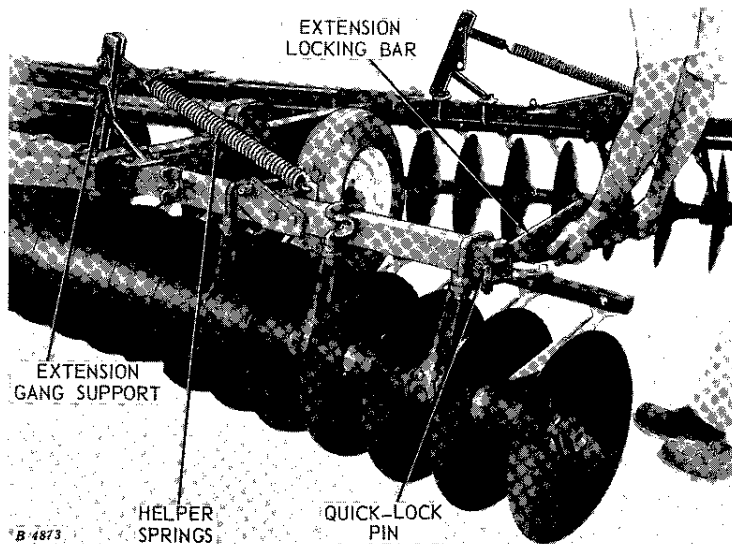
NOTE: If desired, the remote hydraulic cylinder can now be removed and the disk harrow will stay in the raised position.

Lock the tractor swinging drawbar in a fixed position.

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.

TRANSPORTING—Continued

EXTENSION GANGS



Install the extension gang locking bar in the hole in the end of the extension gang, and secure it in place with the Quik-Lock pin. Raise the extension gang and fold it over against the extension gang support.

CAUTION

1. Extension gangs have spring lift. Stand clear when folding for transport.
2. Always secure extension gangs in transport position with locking device.

FIELD OPERATION

REMOTE HYDRAULIC CYLINDER

Install the remote hydraulic cylinder on the disk harrow and disconnect the transport link.

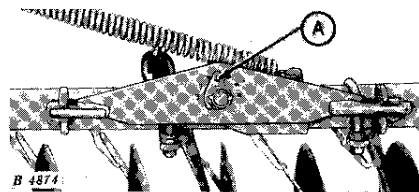
TRACTOR SWINGING DRAWBAR

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

EXTENSION GANGS

Fold the extension gangs down and lock in working position on the 16-foot, 6-inch BW, 17-foot, 10-inch BW, 19-foot, 2-inch BW, or 20-foot, 6-inch BW Disk Harrow.

Check the gang bolt nuts occasionally, to be sure they are tight.



The extension gangs may be adjusted up or down. To adjust each

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