

200 Series Row- Crop Cultivators for Models 50, 60, 70, A, B and G Tractors



JOHN DEERE

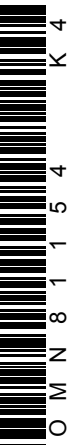
OPERATORS MANUAL

200 Series Row- Crop Cultivators for Models 50, 60,
70, A, B and G Tractors

OMN81154 K4 English

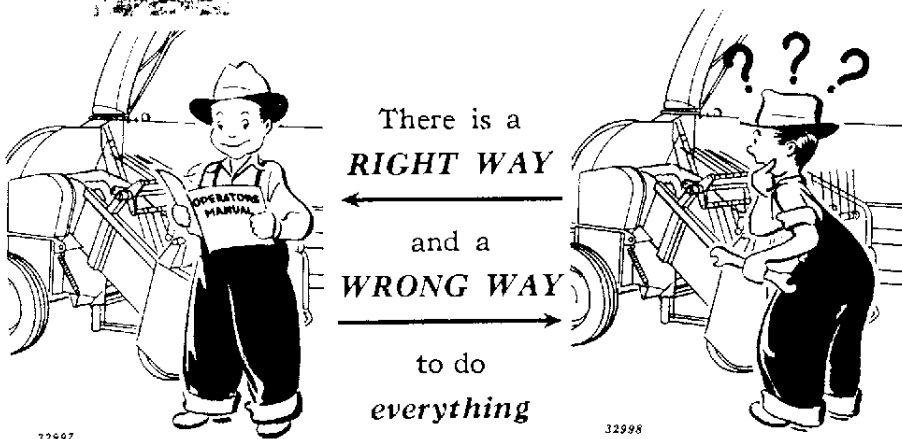
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introduction



Your new John Deere No. 6 Forage Harvester is a dependable machine. With proper care and operation, you can expect it to deliver the service and long life designed and built into it. Like any precision machine, your harvester will require a certain amount of attention at regular intervals. When any questions arise regarding lubrication, operation, or maintenance, use this manual as a guide to care for and service your machine the RIGHT WAY.

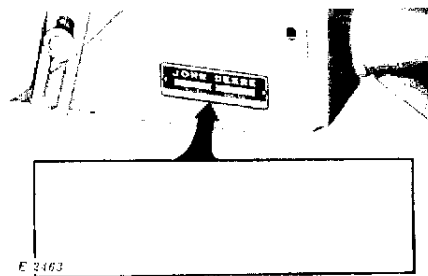
If you find yourself in need of additional information or special servicing not covered in this manual, see your John Deere dealer. He is in a position to answer your questions for you, or to secure the correct information.

When in need of parts, either to replace worn parts or to make emergency repairs, see your local John Deere dealer.

When ordering parts, provide your dealer with the serial number of your harvester or attachment, de-

pending on the parts you need. This information will help him to give you prompt and efficient service.

The serial number of your machine is located on the lower rear right-hand portion of the main frame. (Record it in the space below.)



Record the serial number of the attachments in the spaces provided below:

Pickup Unit _____
 Row-Crop Unit _____
 Mower Bar Unit _____

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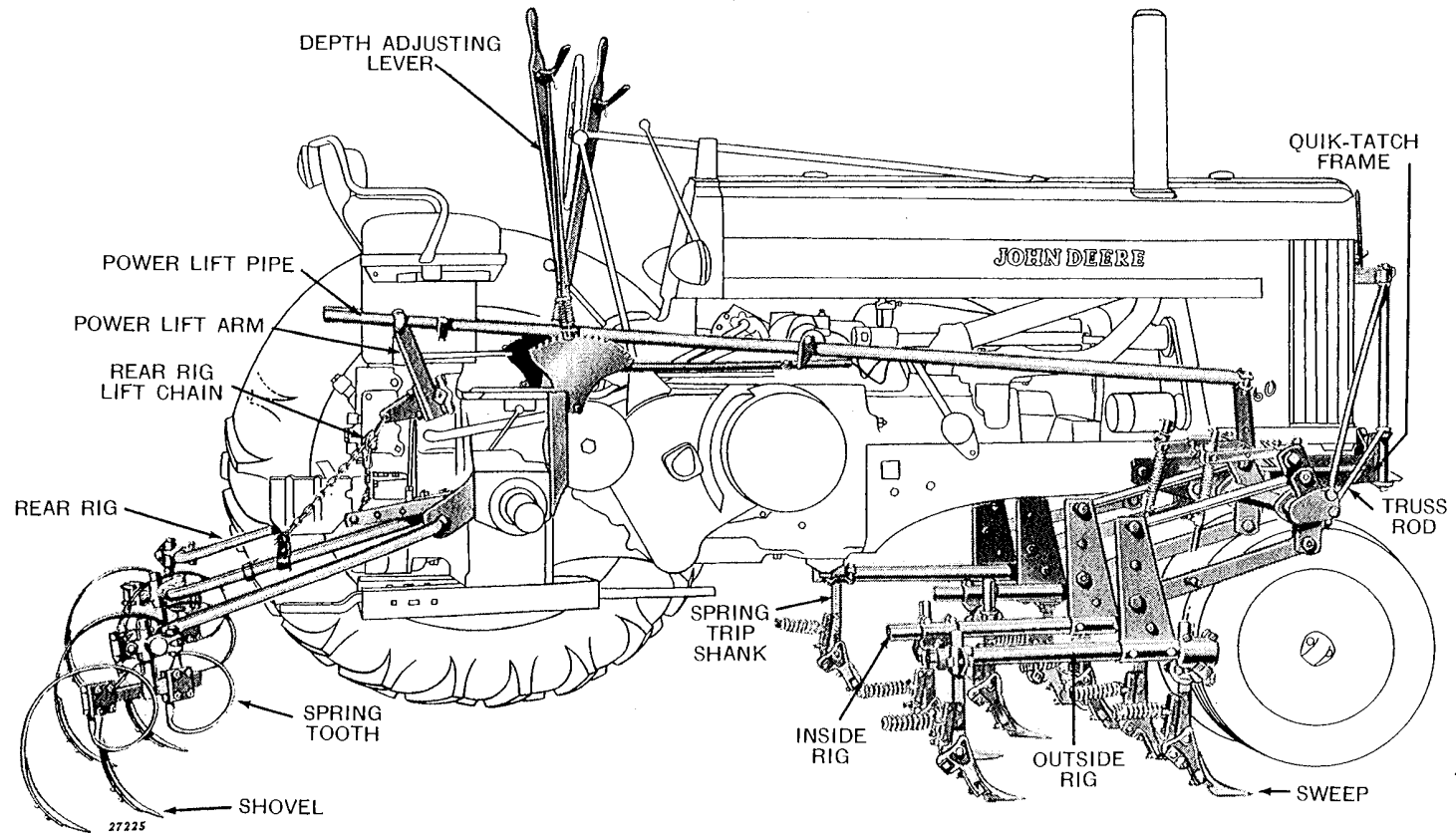


Figure 1—John Deere No. 208 Power Lift Row Crop Cultivator

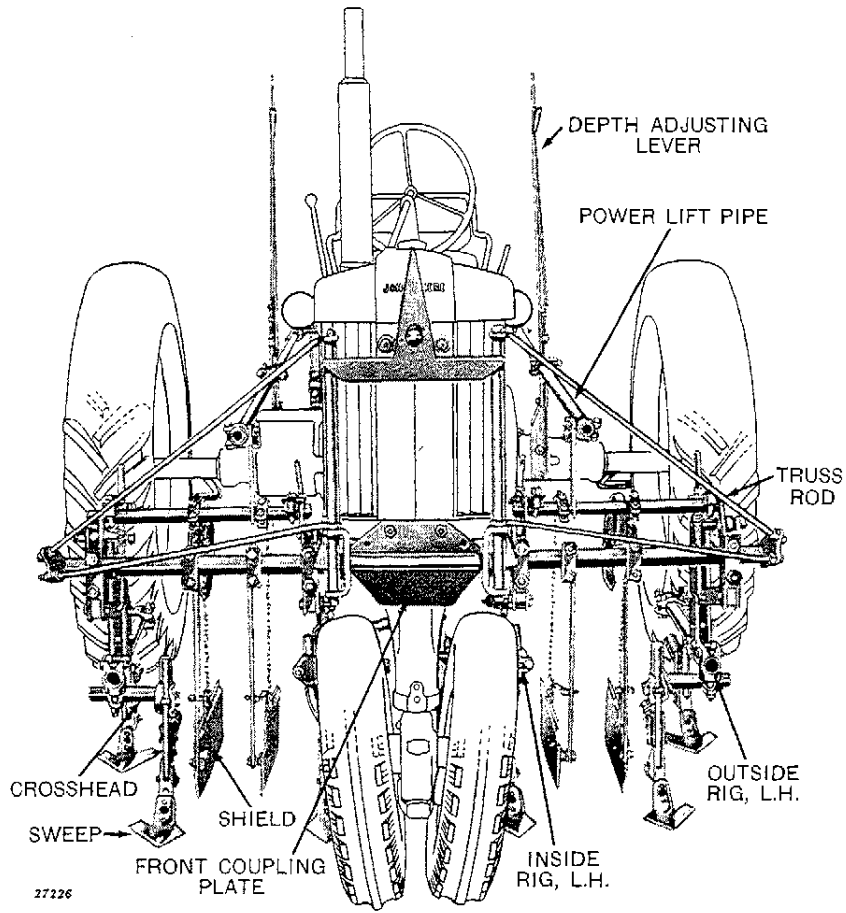


Figure 2—Front View, John Deere Power Lift Row Crop Cultivator

SPECIFICATIONS

Description.

All the cultivators listed below have four front rigs.

The No. 201 has no rear rigs.

The Nos. 207, 214, and 216 have two rear rigs.

The Nos. 202, 203, 204, 205, 208, 210, 212, 215, and 218 have three rear rigs.

Numbers and Types of Shanks

No.	Front	Rear	Total No. of Sweeps	Row Spacing
201	11 Spring Trip 1-3/8" Shanks	None	11	28"-42"
202	8 Spring Trip 1-3/8" Shanks	{ 3 Spring Trips 1-3/8" Shanks	11	34"-42"
203	{ 8 Quick Adj. Spring Trip 1-3/8" Shanks	{ 3 Quick Adj. Spring Trip Shanks	11	34"-42"
204	8 Double Spring Teeth	{ 6 Single Sprg. Teeth	14	34"-42"
205	8 Double Spring Teeth	{ 3 Quick Adj. Spring Trip Shanks	11	34"-42"
207	9 Spring Trip 1-3/8" Shanks	{ 4 Single Sprg. Teeth	13	34"-42"
208	8 Spring Trip 1-3/8" Shanks	{ 6 Single Sprg. Teeth	14	34"-42"
210	8, 16" Disks	{ 3 Spring Trips 1-3/8" Shanks	3	38"-44"
212	8 Spring Trip 1-3/8" Shanks	{ 3 Spring Trips 1-3/8" Shanks	11	28"-42"
214	11 Single Spring Teeth	{ 4 Single Sprg. Teeth	15	28"-42"
215	16 Spring Trip 1-3/8" Shanks	{ 6 Spring Trip Shanks 1-1/8"	22	28"-60"
216	11 Spring Trip 1-3/8" Shanks	{ 4 Single Sprg. Teeth	15	28"-48"
218	{ 4 Spring Trip 1-3/8" Shanks 7 Single Spring Teeth	{ 6 Single Sprg. Teeth	17	28"-48"

All cultivators, except No. 215, are erected at the factory for 40-inch row spacing. The No. 215 cultivators are erected for 60-inch rows. To adjust rigs for other row spacing see instructions, Page 9.

OPERATING AND ADJUSTING

Shovels and Sweeps.

Be sure shovels or sweeps are at a uniform height to insure even cultivation.

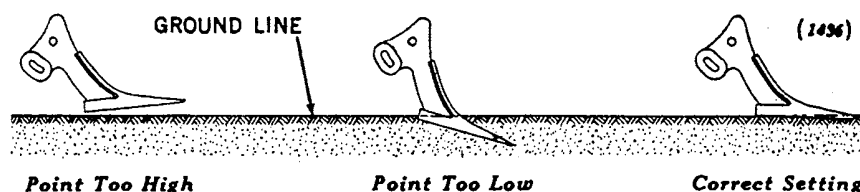


Figure 3—Setting Sweeps on Shanks

Leveling Shovels or Sweeps.

There is only a limited amount of vertical adjustment in the offset shank—therefore, first adjust the offset shank to the desired position and then level all shovels or sweeps to the shovel or sweep on the offset shank. All shovels or sweeps must be set in the correct setting in relation to the ground. (See Figure 3.)

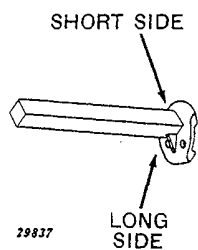


Figure 4

CAUTION: The clamp end of the cross-arms are $\frac{3}{4}$ -inch longer on one side than on the other. (Note construction of crossheads.) The crosshead should ordinarily be installed in the clamp so that the longer side of clamp end is down, thus providing ample vertical adjustment to level shovels or sweeps. (See Figure 4.)

Power Lift Cultivators.

The front and rear rigs are raised and lowered by the hydraulic system on the tractor.

Depth Adjustment

The position of the set screw collar at "K," Figure 53, determines the height of lift of the cultivator front rigs. Care should be used in making this adjustment to prevent breakage of lift parts, which might occur if collar is set too far back on pipe, causing cultivator rigs to strike tractor when lifted. The two collars at "I," Figure 53, should be adjusted to allow maximum depth required and not allow adjusting rod to slip out in lifted position.

The levers should be set for the maximum depth desired. The Powr-Trol should be used to lift, drop and adjust to field conditions encountered. The depth of the rear rigs is controlled by the rear lifting chains as shown at "D," Figure 54, by inserting bolt at lower end in proper link.

Cultivating Point Rows.

The two notches in the front end of the ratchet for the hand adjusting levers on power lift cultivators are provided so that either side of the cultivator can be raised for working point rows.

Leveling and Tilting the Front Rigs.

Each front rig lifting rod is provided with a collar adjustment "E," Figure 53. Adjust so that all rigs operate at the same level. Tilt the rigs up or down with slotted adjustment at "M," Figure 53.

Spring Trips.

Each spring trip should be tripped before starting cultivator to give assurance that they will function properly. The tension on the spring trips may be adjusted with the nut "N," Figure 53, at the rear end of the spring. If additional adjustment is required, this may be procured with the set screw which is just below the spring. However, this is a factory adjustment and rarely requires changing. One-half to one turn of the set screw makes a big difference in the action of the trip. To make the trip hold tighter, turn the set screw out; turn the set screw in to make the trip release more easily.

ATTACHING QUIK-TATCH CULTIVATOR

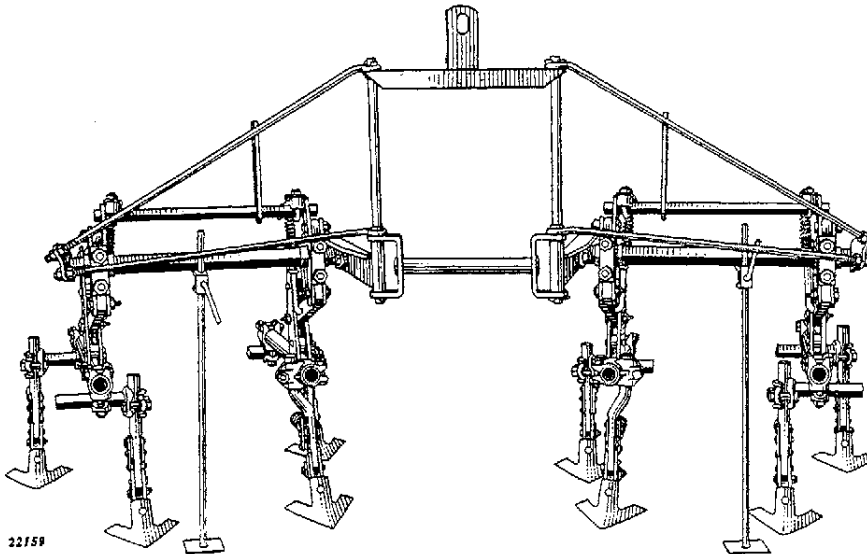


Figure 5—Quik-Tatch Cultivator on Stands

Front section of cultivator must be in position as shown in Figure 5. Drive tractor forward into cultivator as shown in Figure 6, until cultivator Quik-Tatch frame engages Quik-Tatch front coupling plate on tractor. Then swing right and left front sections to tractor frame, fastening with bolt as at "A," Figure 7.

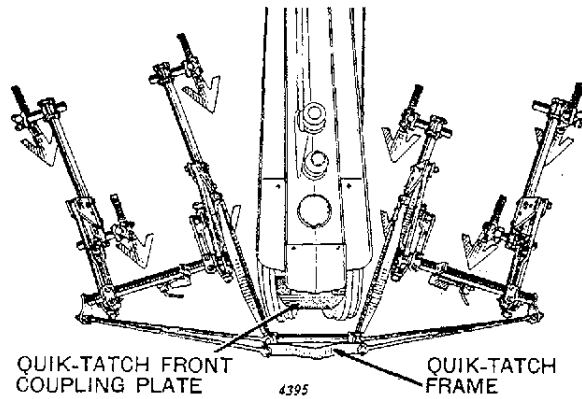


Figure 6—Driving Tractor into Quik-Tatch Cultivator

Attach lifting pipes and remove stands. Stands should be carried on front section of cultivator, permitting quick accessibility.

If rear rigs are to be used, attach as explained under "Rear Rigs," Page 58.

DETACHING CULTIVATOR

Cultivator with Quik-Tatch.

Lower cultivator so that shovels are resting on fairly level ground. Remove lever assemblies and rear rigs by loosening large hexagon nuts on studs on the tractor. Also disconnect rear lift chains from arms on rockshaft.

Remove lifting pipes as shown in Figure 8. Slotted key "A" permits easy removal.

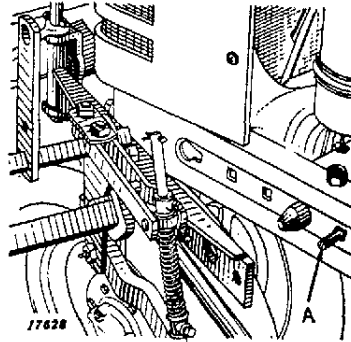


Figure 7—Attaching Quik-Tatch Frame to Tractor

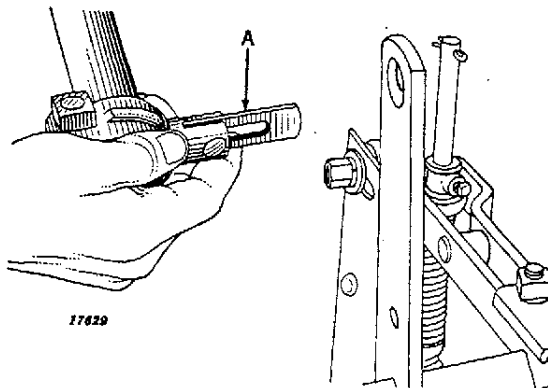


Figure 8—Lifting Pipe, Attaching or Detaching

Take nut off bolt "A," Figure 9, on right and left sides of frame.

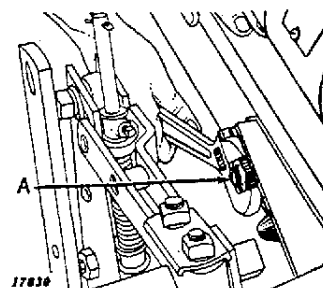


Figure 9—Detaching Cultivator with Quik-Tatch Frame

Place support stands in position on each side of main frame at an angle, the clamp part being nearer the tractor and resting firmly against the underside of the frame bar. Pull the frames away from the tractor and back the tractor away from the cultivator. See Figure 10.

Front Coupling Plate, Figure 10, may be left on tractor, unless the pedestal studs are needed for another attachment. The lift arms on rock-shaft may also be left in place.

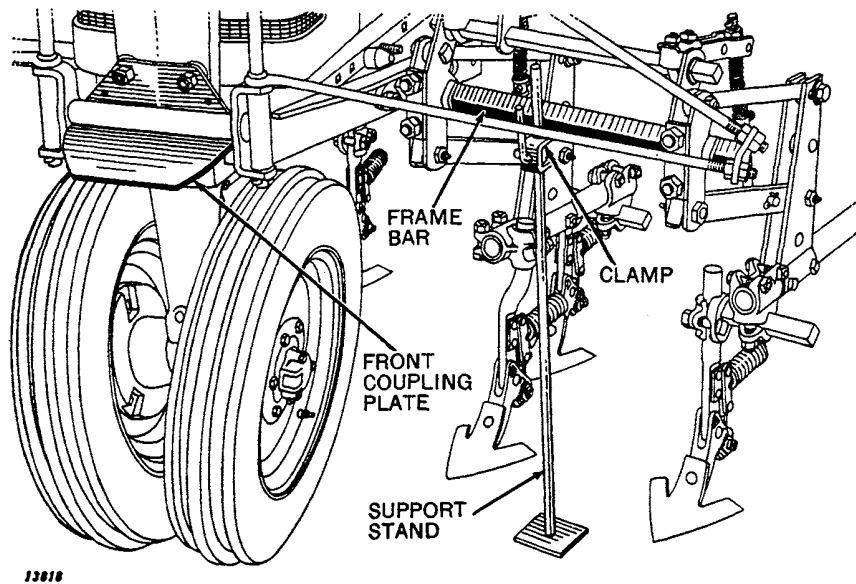


Figure 10—Removing Front Frame and Rigs

Cultivator Without Quik-Tatch.

Remove lever assemblies, rear rigs and lifting pipes as explained under *Cultivator with Quik-Tatch* on Page 7. Detach the truss rods, Figure 47.

To remove the front rigs it is necessary to take out only the four bolts which fasten the frame bars to the tractor. These bolts have hexagon nuts which fit the regular wrench furnished with the tractor. If tractor has buttonholes simply loosen the nuts on the bolts.

Shields.

Shield arms may be attached either ahead of the frame bar (as shown in "A," Figure 59) or behind, depending on the fore-and-aft setting of the shield desired. The smooth side of the shield should be toward the shovels so dirt and trash will not catch on the straps of shields.

Shields may be adjusted for side play at "C," Figure 59. If a swinging shield is wanted, loosen bolt until shield swings freely and tighten lock nut. If a rigid shield is desired, screw bolt up tight then back off 1/2 turn and tighten lock nut.

Level shields by adjusting the threaded eyebolt at "D," Figure 59.

Adjust height of shields with chain.

Row Spacing. The front rigs when shipped from factory are set on frame bars for 40-inch rows. See table on Page 4 for different row spacings for which rigs can be set. See chart for setting cultivator on pages 64 and 65.

NOTE: When moving rig hangers on frame bars for different width rows be sure both sides of cultivator are set exactly alike.

Set front shovels in or out by adjusting crosshead at "L," Figure 53, to distance desired from row.

Rear rigs are adjustable in or out in the bearings. When making this change, shift the lifting brackets to conform. Shanks are also adjustable in or out on the rear rigs.

Setting the 204 Cultivator for 34-inch Row Spacing.

It is necessary to interchange the clamps on the inside rig pipes. The rear clamp is placed on the front of the rig pipe and the clamp and crosshead placed on the rear of the rig pipe.

In order to get clearance between the front spring tooth and front tractor wheels, the shank on the front spring tooth is reversed, thus setting the spring tooth 5 inches to the rear.

Pressure Springs.

Tension on the pressure springs attached to the lifting pipes, and the pressure springs on the rear rigs should be adjusted when the cultivator is in the ground in working position. Place only enough tension on these springs to keep the shovels down to work.

210 DISK CULTIVATOR

Row Spacing.

The disk may be adjusted for rows spaced 38 inches to 44 inches. The cultivators are erected at the factory in the 40-inch setting. The tie bar "D," Figure 61, has holes providing for different row spacing and various width tractors. Rear rigs are adjustable in or out in the bearings for row spacing. See row spacing, Page 9. Shanks are also adjustable in or out on the rear rigs.

Disk Gangs.

The depth and angle at which disks operate can be adjusted to various requirements by means of the clamps at "E," Figure 61. The pitch of the disks is controlled by the slotted adjustment at "G." The cross arms at "H" provides ample adjustment for setting the disks to the rows. For throwing in or out, the disks are changed from right to left.

Pressure Springs.

Tension on the springs attached to the lifting pipes and rear rigs should be adjusted when cultivator is in the ground in working position. The spring pressure on rig lift rods should be adjusted in the lifted position. Put only enough tension on these springs to keep the disks and shovels down to work.

A careful operator is the best insurance against an accident.

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."**

—National Safety Council—

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