

# **1010 Series Drawn Field Cultivators (Serial No. 15675-)**



## **OPERATORS MANUAL**

**1010 Series Drawn Field Cultivators  
(Serial No. 15675-)**

OMN200039 J4    English

**John Deere Des Moines Works  
OMN200039 J4**

LITHO IN U.S.A.  
ENGLISH



## INTRODUCTION



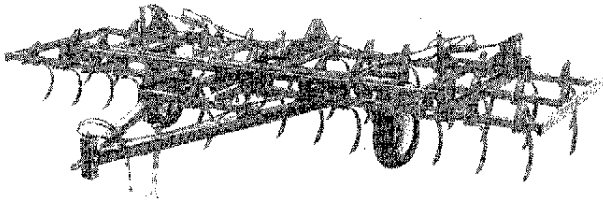
This safety alert symbol indicates important safety messages in this manual. When you see this symbol be alert to the possibility of personal injury and carefully read the message that follows:

This publication contains both the U.S. customary units of measurement and the SI Metric equivalents.

"Right-hand" and "left-hand" sides of the cultivator are determined by facing in the direction the cultivator will travel when in use.

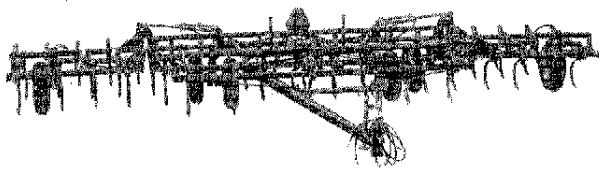
The warranty appears on your copy of the purchase order which you should have received from your dealer.

Record your model and serial number in the space provided on page 57.



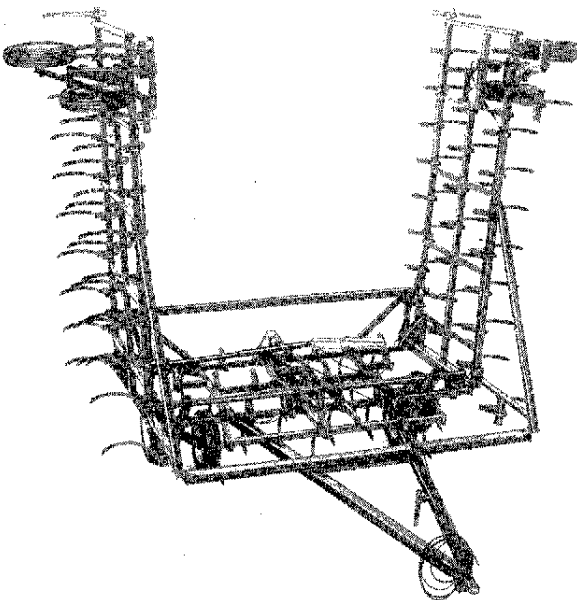
N79019A3Y

21-1/2-foot (6.6 m) Rigid Horizontal Fold



N79031C1Y

28-1/2-foot (8.7 m) Flexible Horizontal Fold



N79040A1

40-1/2-foot (12.3 m) Flexible Vertical Fold



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# Safety



## Operate Safely

DO NOT operate field cultivator without reading this operator's manual.

DO NOT allow anyone to ride on the field cultivator when it is in motion. Observe operation only from tractor platform.

Always shut off tractor engine and shift to "park" when leaving tractor. Remove key when leaving tractor unattended.

Have the field cultivator stationary and on level ground when raising or lowering outriggers.

DO NOT raise or lower the outriggers when moving.

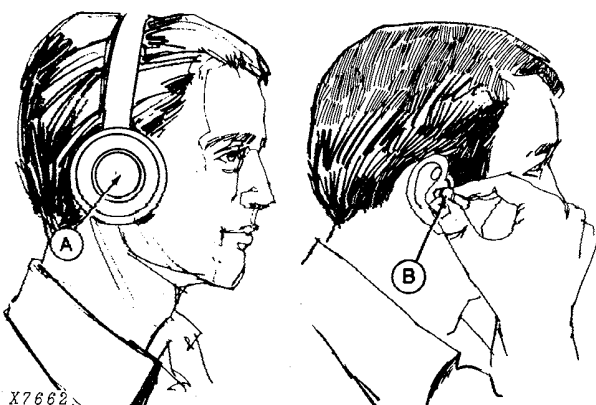
DO NOT operate to ditch or creek.

Slow down when turning and drive slowly over rough ground.

Apply both tractor brakes evenly when making emergency stops. Plan ahead.

Wear relatively tight and belted clothing to prevent being caught on some part of the machine.

DO NOT operate with outriggers folded.



## Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noise.

A—Earmuffs  
B—Earplugs

## Avoid Fires

DO NOT refuel with the tractor engine running.

DO NOT smoke or use a lantern when refueling.

## Transport Safely

Before raising and lowering outriggers, KNOW proper outrigger lift procedure. See Hydraulic Outrigger Lift in Operating Section.

Always install lockup pins on vertical fold outrigger lift models.

Outriggers must rest on their stops during transport for horizontal fold models.

Always move depth control cylinder stop forward to lock cylinder.

DO NOT fail to latch the tractor brakes together.

Observe overhead wires and KNOW the transport height of your cultivator.

Shift the tractor into a lower gear when transporting down steep slopes or hills.

Keep SMV emblem and reflectors clean and visible from the rear.

Stop slowly.

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

## Practice Safe Maintenance

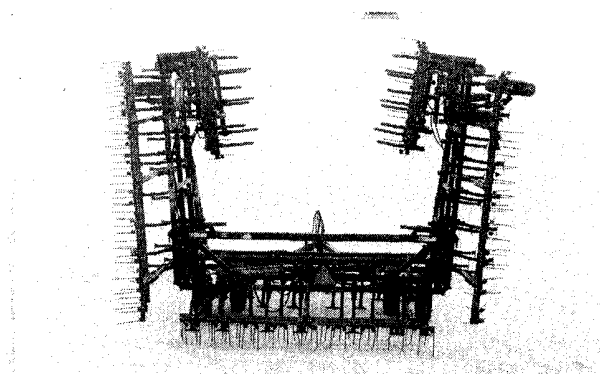
Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

DO NOT lubricate, adjust, or clean the field cultivator while it is in motion.

Always use a safety support when working on, under, or around the field cultivator.

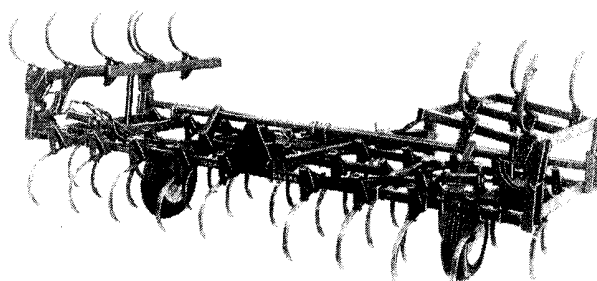
Shut off tractor engine and remove key when working on field cultivator.

After removal or repair of cylinders, support cylinders on blocks and cycle several times to bleed trapped air from lines.



Vertical Fold

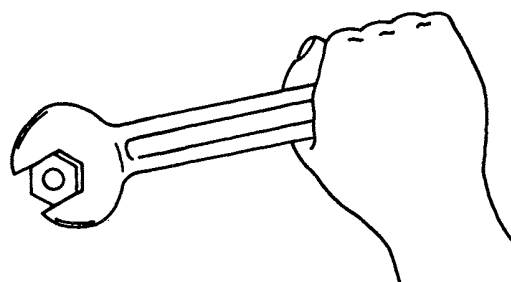
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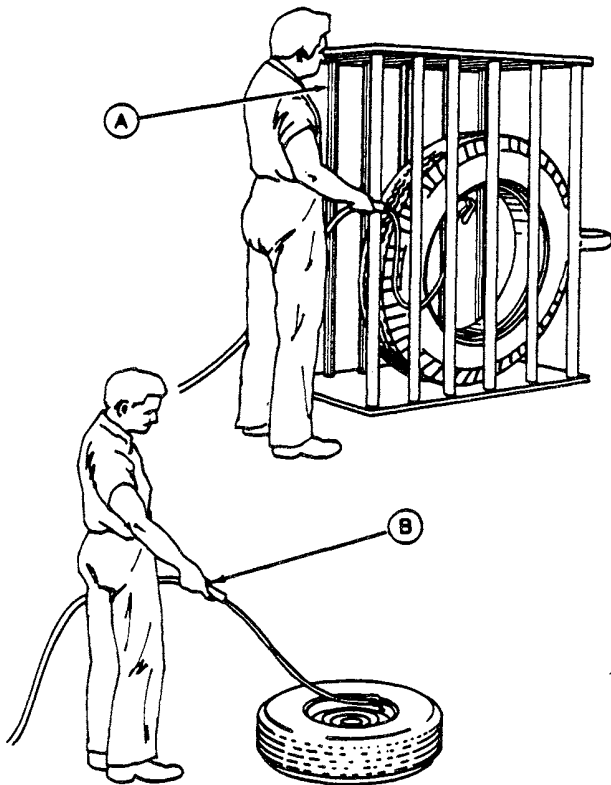
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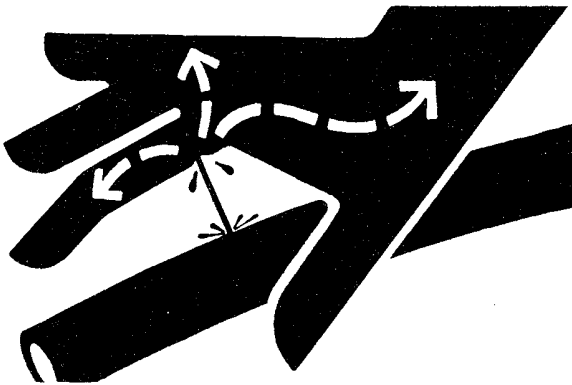
## Service Tires Safely

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When seating tire beads on rims, never exceed 35 psi (240 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

A—Use a safety cage if available.  
B—Do not stand over tire. Use a clip-on chuck and extension hose.



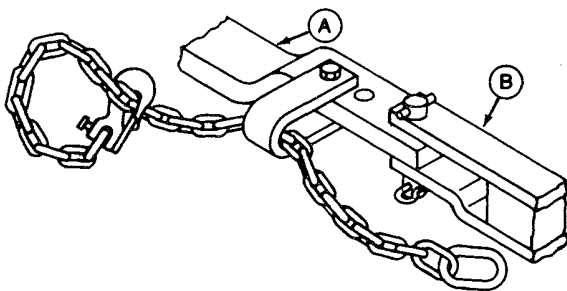
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## Avoid High-Pressure Fluids

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

## Use A Safety Chain



A safety chain will help control drawn equipment (B) should it accidentally separate from the drawbar (A) while transporting. Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your John Deere dealer for a chain with a strength rating greater than the gross weight of the towed machine.



## Preparing the Tractor

Refer to tractor operator's manual regarding recommended adjustments, tire inflation pressures, use of hydraulic systems, PTO and other information pertaining to tractor with implement uses.

Your field cultivator is equipped with International Standard Organization (ISO) hydraulic hose fittings. If your tractor does not have ISO hydraulic couplers, see your John Deere dealer for connectors.

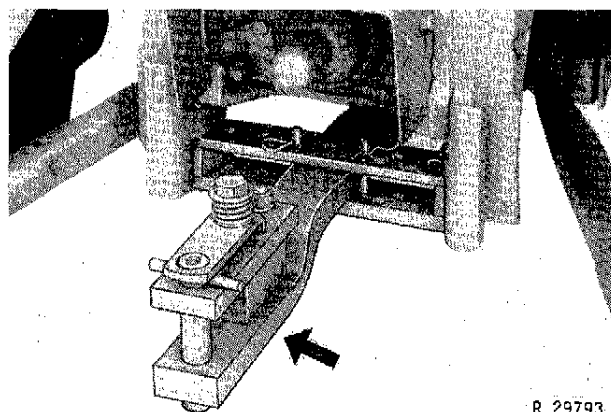
1. Pin the drawbar in fixed, centered low position (bold arrow).



**CAUTION:** Make sure PTO guard and master shield are both installed on tractor.

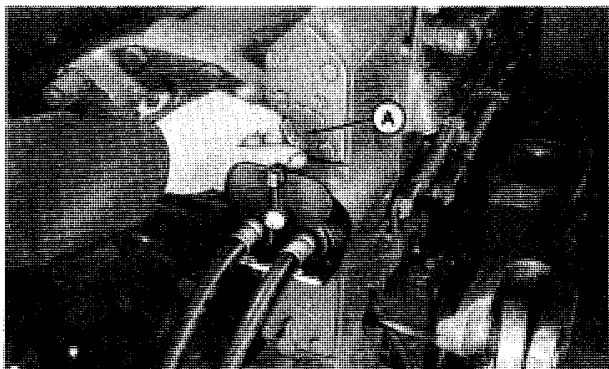
2. Install sufficient ballast and/or tire pressure. See your tractor operator's manual.
3. Check tractor hydraulic oil reservoir and add oil if necessary.

**NOTE:** Tractor hydraulic oil flow must be at least 12 gpm (45 lpm) for proper operation of the cultivator.



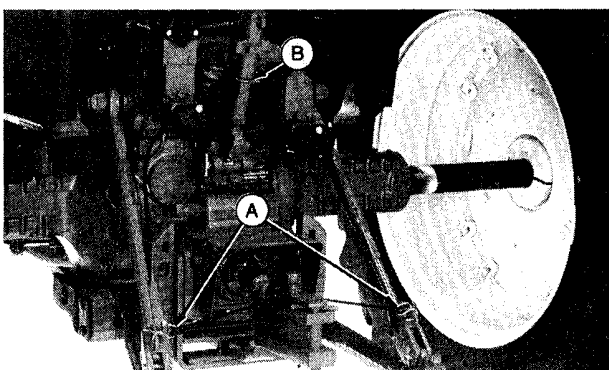
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## 6 Preparing the Tractor



RW4429

4. Turn metering valves (A) to fast or **rabbit** position.



N82158B1

5. Secure lift links (A) and center link (B) **so they** do not swing into tractor tires or onto the **hoses**. The center link can be held vertical with its retaining clip.



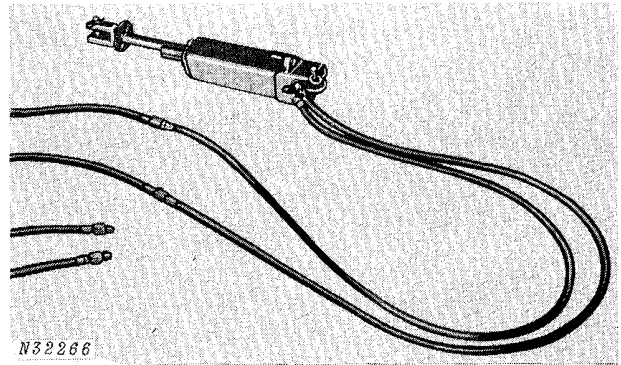


## Preparing the Cultivator

1. Obtain and install 3 or 3-1/2 x 8-inch (76 or 89 x 203 mm) hydraulic cylinder with an adjustable stop for the 12-1/2 through 17-1/2-foot (3.8 through 5.3 m) drawn rigid models and the 15-1/2 through 23-1/2-foot (1.7 through 7.2 m) drawn rigid horizontal fold models.

**NOTE:** Tractor hydraulic oil flow must be at least 12 gpm (45 lpm) for proper operation of the cultivator.

2. Check tire pressure:
  - 7.60 x 15 6-PR tires - 36 psi (250 kPa)
  - 5.90 x 15 Stabilizer tires - 29 psi (200 kPa)
3. Torque wheel bolts to 130 lb-ft (176 N·m).



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