

# 960 SERIES DRAWN FIELD CULTIVATORS



JOHN DEERE

## OPERATORS MANUAL 960 SERIES DRAWN FIELD CULTIVATORS

OMN200083 H0 English

JOHN DEERE DES MOINES WORKS  
OMN200083 H0

LITHO IN THE U.S.A.  
ENGLISH



# Introduction

**READ THIS MANUAL** carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

**THIS MANUAL SHOULD BE CONSIDERED** a permanent part of your machine and should remain with the machine when you sell it.

**MEASUREMENTS** in this manual are U.S. customary units and their metric equivalents.

**RIGHT-HAND AND LEFT-HAND** sides are determined by facing in the direction the implement will travel when going forward.

**WRITE PRODUCT IDENTIFICATION NUMBERS** in the Specifications section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

**WARRANTY** is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

**THE TIRE MANUFACTURER'S** warranty supplied with your machine may not apply outside the U.S.

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*All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.*

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# Safety

## RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



DX,ALERT -19-04JUN90

TS1389 -JUN-07DEC88

## UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



DX,SIGNAL -19-04JUN90

TS187 -19-00SEP86

## FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX,READ -19-04JUN90

TS201 -JUN-29AUG88



## OPERATE SAFELY

Do not allow others to ride on the cultivator or tractor.

Do not operate close to a ditch or creek.

Do not operate with wings folded.

Slow down when turning and traveling over rough ground.

Always shut off tractor and shift to "Park" or set brakes when leaving tractor. Remove key when leaving tractor unattended.

Always have tractor stopped on level ground when raising or lowering wings.

Be sure area around cultivator is clear before raising or lowering cultivator or wings.

If chemicals are used, follow manufacturer's recommendations for handling and storage.

N03,960C,A -19-24SEP86

## PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.



DX,BYPAS1 -19-04JUN90

-JUN-11-JAN89  
TS:77

## USE SEAT BELT PROPERLY

Use a seat belt when you operate with a roll-over protective structure (ROPS) to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS.



DX,ROPS1 -19-04JUN90

-JUN-23-AUG88  
TS205



## INSTALLING AND BLEEDING WING FOLD CYLINDERS

**CAUTION:** Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.

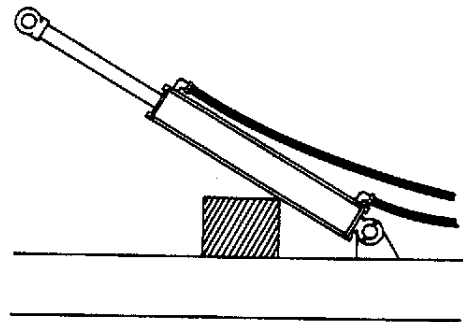
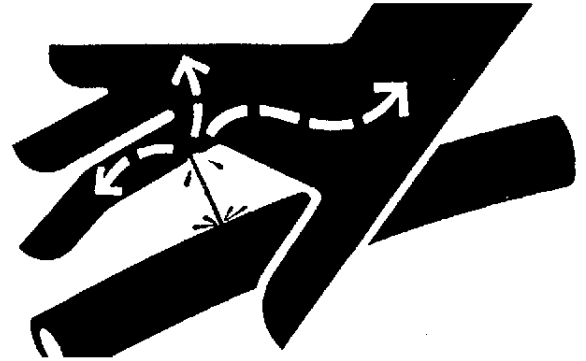
1. Attach cylinder base end(s) to linkage, but leave rod end(s) detached.
2. Attach all hoses in the hydraulic circuit.
3. Support cylinder(s) on wooden blocks, so rod(s) can extend and retract without interference.
4. Connect hoses to tractor. Fully extend and retract all cylinders at least two times, maintaining hydraulic pressure at full extension for at least 30 seconds. Then extend cylinders one more time, maintaining pressure at full extension for one minute. This allows all air to escape from cylinders.

**CAUTION:** If cylinders are not bled as described above, wings or standards could drop unexpectedly, causing injury or death.

5. Attach rod end(s) of cylinder(s).

**CAUTION:** To avoid injury or death, stand clear of machine when wings are being folded or unfolded. Mechanical or hydraulic failure can allow wings to fall rapidly.

**CAUTION:** If wing cylinders must be removed with wings in folded position, be sure to chain wings together to prevent accidental wing fall. Before reinstalling, cylinder must be fully charged with oil. See Installing and Bleeding Wing Fold Cylinders.



-JUN-23AUG88

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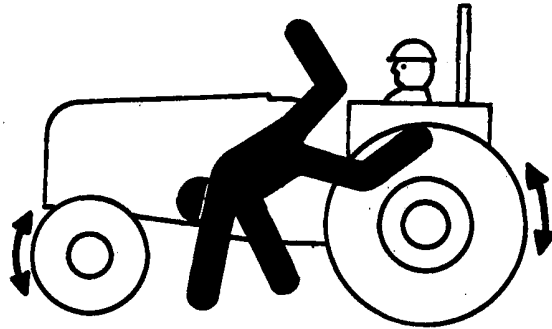
N57053



## KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



DX,RIDER -19-04JUN90

TS290  
-UN-29AUG88

## HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



DX,FIRE1 -19-04JUN90

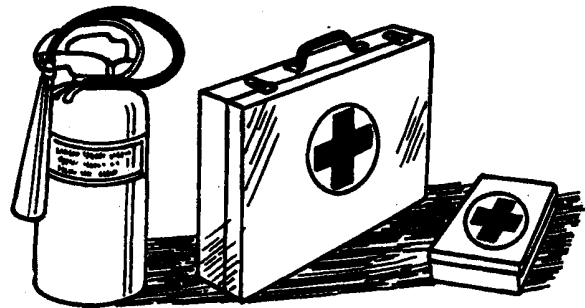
TS202  
-UN-29AUG88

## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



DX,FIRE2 -19-04JUN90

TS291  
-UN-23AUG88



## HANDLE STARTING FLUID SAFELY

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.



DX,FIRE3 -19-04JUN90

T6089AU -JUN-23MAR88

## WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

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

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



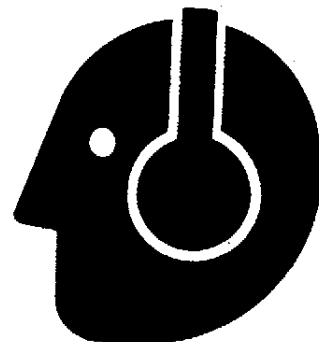
DX,WEAR -19-04JUN90

TS206 -JUN-23AUG88

## PROTECT AGAINST NOISE

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

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



DX,NOISE -19-04JUN90

TS207 -JUN-23AUG88



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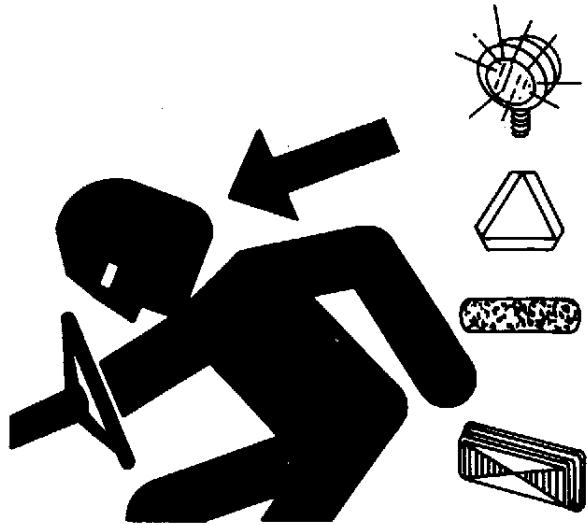


## USE SAFETY LIGHTS AND DEVICES

Slow moving tractors, self-propelled equipment and towed implements or attachments can create a hazard when driven on public roads. They are difficult to see, especially at night. Avoid personal injury or death resulting from collision with a vehicle.

Flashing warning lights and turn signals are recommended whenever driving on public roads. To increase visibility, use the lights and devices provided with your machine. For some equipment, install extra flashing warning lights.

Keep safety items in good condition. Replace missing or damaged items. An implement safety lighting kit is available from your John Deere dealer.



DX,FLASH -19-04JUN90

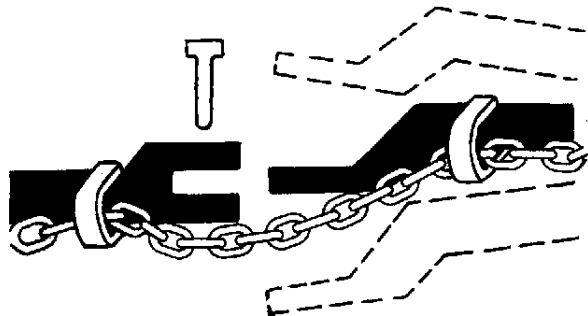
TS951 -UN-12APR90

## USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

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 equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



DX,CHAIN -19-04JUN90

TS217 -UN-23AUG88



## TRANSPORT SAFELY

When transporting the machine 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.

Keep away from overhead power lines. Serious injury or death may result. Know the transport height and width of your machine.

Always fold wings fully and install transport lockups on depth control cylinders.

Do not exceed 10 mph (16 k/h).

Latch the tractor brakes together.

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

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

Upward force on hitch may cause instability when transporting. Add ballast to tractor as required.



N39394 -JUN-06OCT188

N03,960C,B -19-24SEP86

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