

# 1770 MaxEmerge® Plus Drawn Conservation 12-Row Wide and 16-Row Narrow Flex-Fold Planters



**JOHN DEERE**

## **OPERATOR'S MANUAL**

1770 MaxEmerge® Plus Drawn  
Conservation 12-Row Wide and 16-Row  
Narrow Flex-Fold Planters  
**OMA60117 Issue F7**

**John Deere Harvester Works**  
**OMA60117 Issue F7**  
**(This manual replaces OMA56578 F6)**

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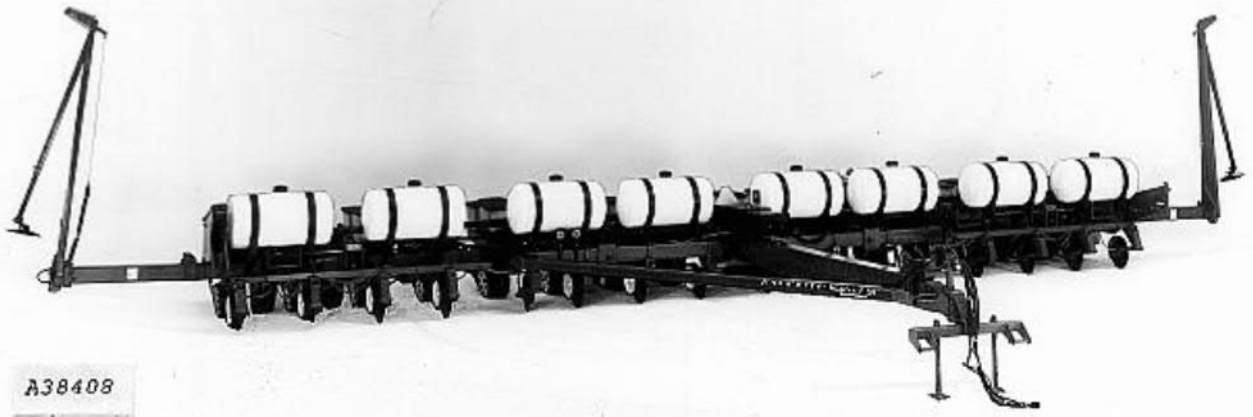


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OMA60117

Introduction



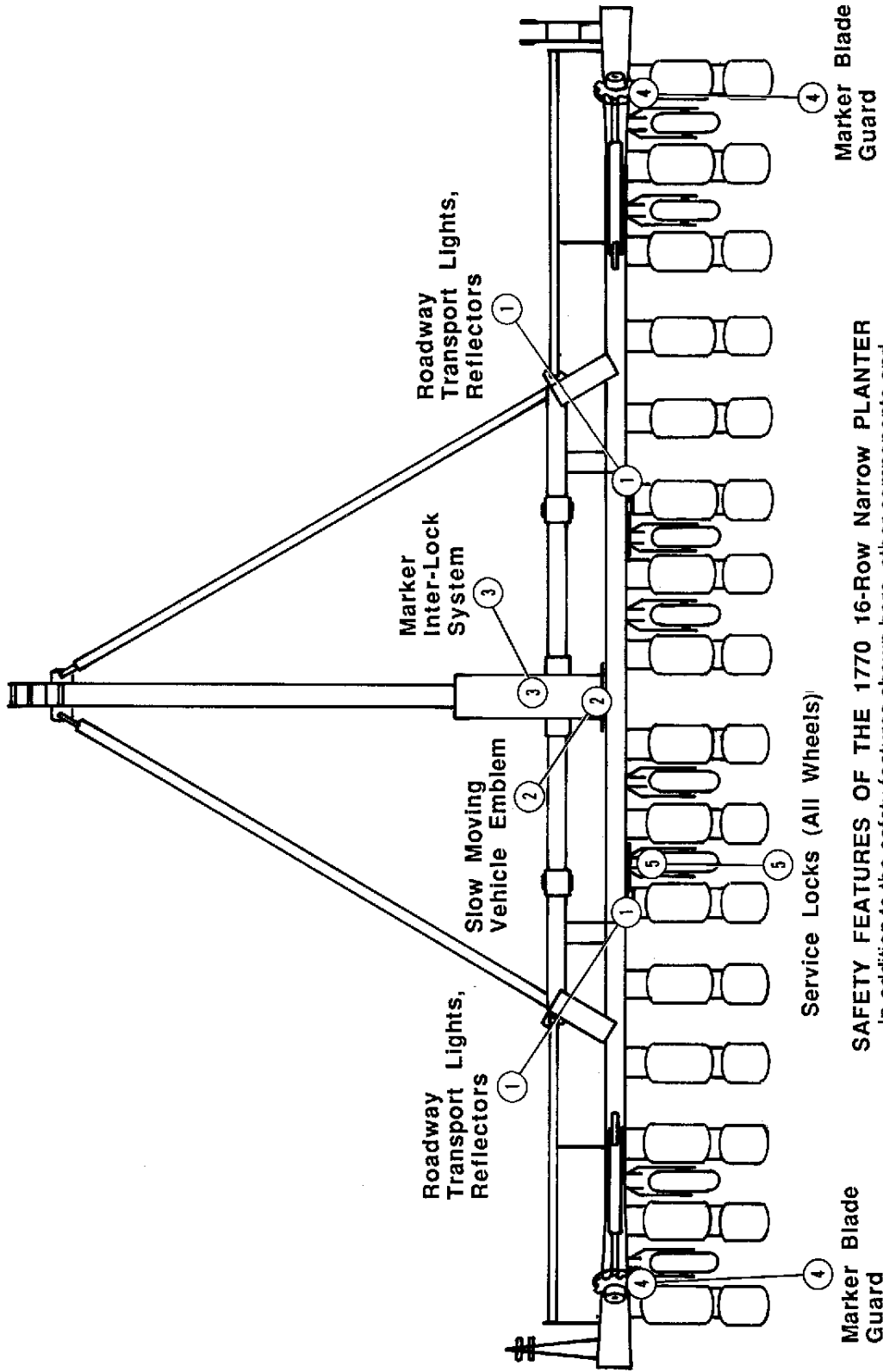
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1770 MaxEmerge® Plus Drawn Conservation 16-Row Narrow Planter

OM56578,A -19-20MAY96

# Safety

## 1770 16-Row Narrow Planter



**SAFETY FEATURES OF THE 1770 16-Row Narrow PLANTER**  
 In addition to the safety features shown here, other components and systems, safety signs on the machine, and safety messages and instructions in the Operator's Manual contribute to the safe operation of this planter when combined with the care and concern of a capable operator.

OM60117.05A -19-13MAY97



## 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 -19-03MAR93

T81389 -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 -19-03MAR93

TS187 -19-30SEP88

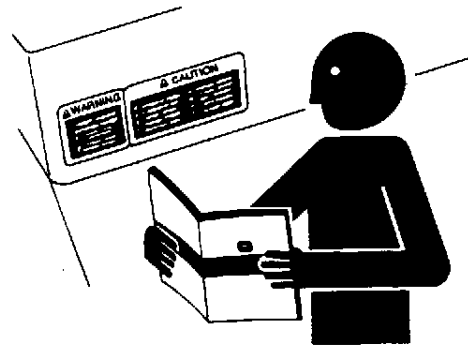
## FOLLOW SAFETY INSTRUCTIONS

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 -19-03MAR93

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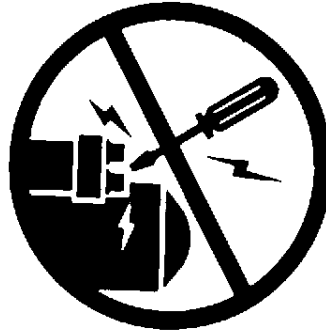


## PREVENT MACHINE RUNAWAY

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 -19-03MAR93

TS177 -UN-11JAN89

## OPERATE THE PLANTER SAFELY

Be careful when operating planter to avoid injury.

If the planter must be in a raised position while working on or near it, be certain service locks are installed.

Serious injury or death can result from contact with electric lines. Use care when moving or operating this machine near electric lines to avoid contact.

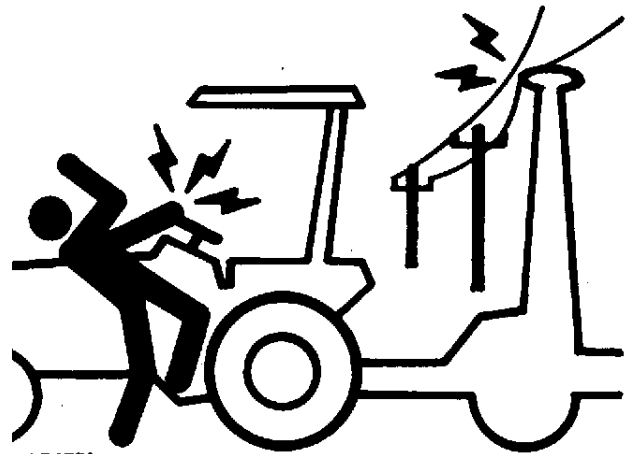
Stand clear of machine when wings are being folded or unfolded. Mechanical or hydraulic failure can allow wings to move rapidly.

Be sure cylinder and attaching hoses are fully charged with oil before operating system.

Be careful when operating system on hillsides; tractor can tip sideways if it strikes a hole, ditch or other irregularity.

Permit only one person, the operator, on tractor platform while tractor and planter are in operation.

Lower planter completely to the ground before unhitching from the tractor. Be sure planter is on a level and firm surface.



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AG4331 -UN-13OCT88

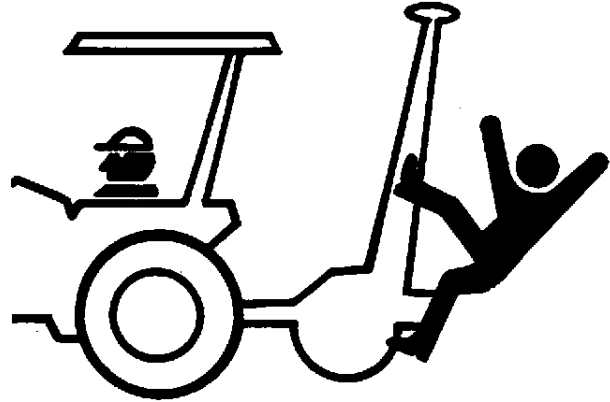
720016ROM,SA,A -19-24SEP92



## 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.



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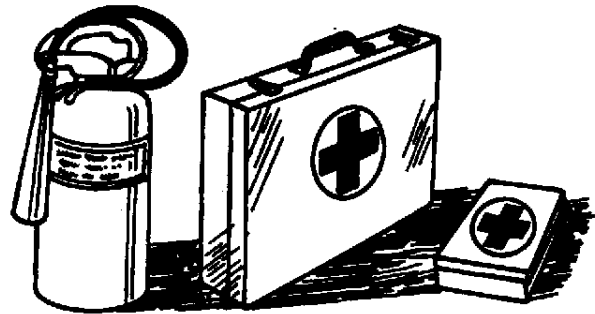
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## PREPARE FOR EMERGENCIES

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.



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TS291

DX,FIRE2 -19-03MAR93

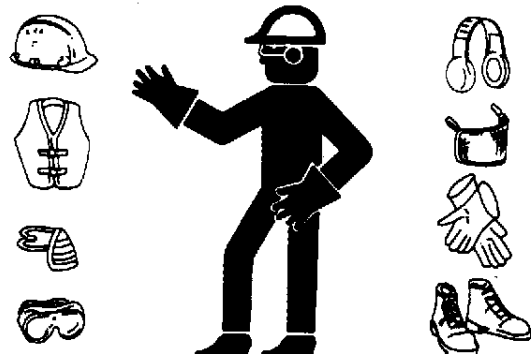
## WEAR PROTECTIVE CLOTHING

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.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



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TS206

DX,WEAR -19-10SEP90



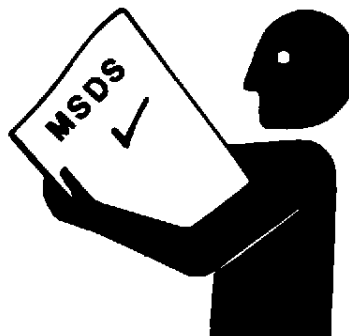
## HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)

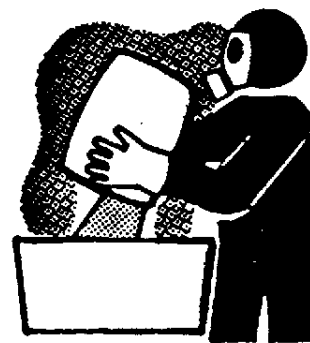


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TS1132 -UN-26NOV90

## HANDLE CHEMICALS PROPERLY

Agricultural chemicals can be dangerous. Improper selection or use can injure persons and animals. BE SAFE; handle and apply with care. Follow instructions of the chemical manufacturer.



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720016ROM,SA,B -19-24SEP92

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## INSECTICIDE AND/OR HERBICIDE HOPPERS LID FILL CLOSED HANDLING SYSTEM

**CAUTION:** Chemicals may cause eye, skin, or breathing problems. Wear long sleeve shirt, gloves and goggles. Refer to and follow safety instruction on the chemical supplier's label.

Chemical residue should be placed in the original or accepted container and disposed of in an approved manner. Follow instruction of the chemical manufacturers for disposal methods.

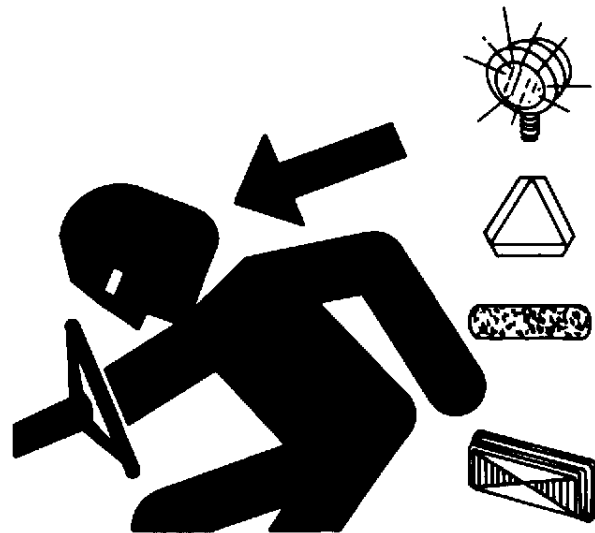
If hoppers are not washed, chemically treated dust may be on the hopper walls, resulting in exposure.

GENOM,CHEM,SA,A-19-20MAY93

## USE SAFETY LIGHTS AND DEVICES

Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use hand signals or turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere dealer.



TS951  
-UN-12APR90

DX,FLASH -19-12SEP95





## TRANSPORT SAFELY

Install marker lockup straps to prevent injury from lowered marker.

The maximum transport speed for this planter is 20 mph (32 km/h). **DO NOT EXCEED.** Never travel at any speed which does not permit adequate control of steering and stopping.

Reduce speed over rough ground.



720016ROM,SA,C -19-24SEP92

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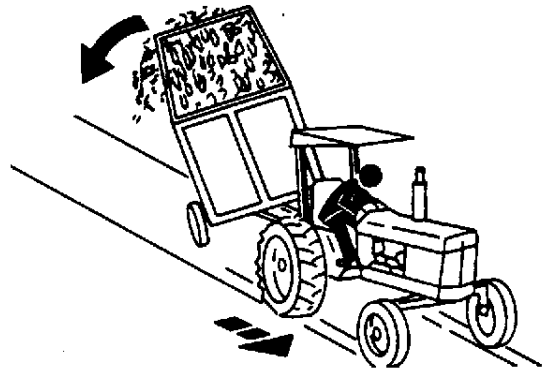
## TOW LOADS SAFELY

Stopping distance increases with speed and weight of towed loads, and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control. Consider the total weight of the equipment and its load.

Observe these recommended maximum road speeds, or local speed limits which may be lower:

- If towed equipment does not have brakes, do not travel more than 32 km/h (20 mph) and do not tow loads more than 1.5 times the tractor weight.
- If towed equipment has brakes, do not travel more than 40 km/h (25 mph) and do not tow loads more than 4.5 times the tractor weight.

Ensure the load does not exceed the recommended weight ratio. Add ballast to recommended maximum for tractor, lighten the load, or get a heavier towing unit. The tractor must be heavy and powerful enough with adequate braking power for the towed load. Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.



DX,TOW -19-02OCT95

TS216 -UN-29AUG88



## PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



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-UN-23AUG88

## REMOVE PAINT BEFORE WELDING OR HEATING

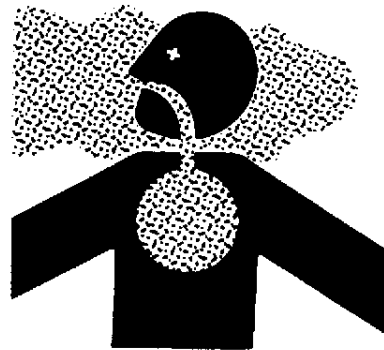
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX,PAINT

-19-03MAR93

TS220  
-UN-23AUG88



## AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



DX,TORCH -19-03MAR93

TS953 -JUN-15MAY90

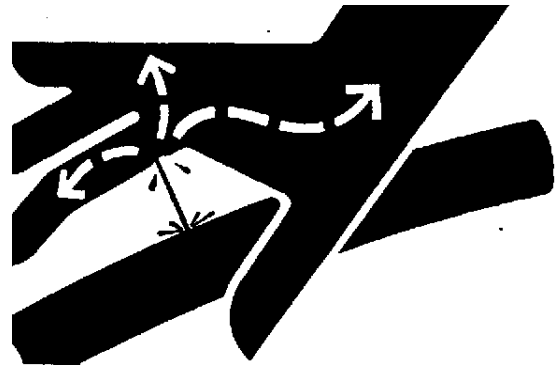
## AVOID HIGH-PRESSURE FLUIDS

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 should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



DX,FLUID -19-03MAR93

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X9811



## DISPOSE OF WASTE PROPERLY

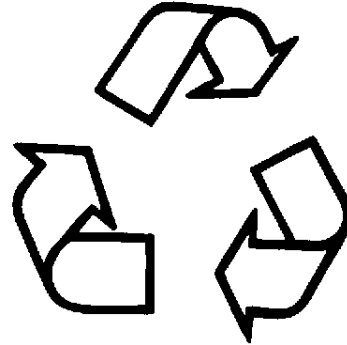
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



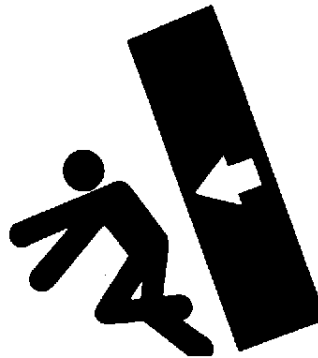
DX,DRAIN -19-03MAR93

TS1133 -UN-26NOV90

## STORE ATTACHMENTS SAFELY

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



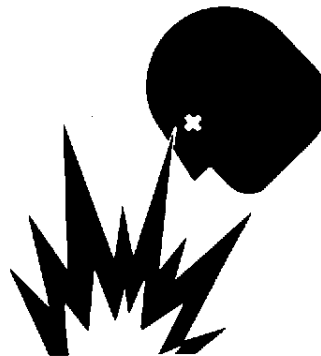
DX,STORE -19-03MAR93

TS219 -UN-23AUG88

## RELEASING FERTILIZER AUGERS SAFELY

Do not use welding torch to remove build-up of dry fertilizer from auger shaft.

Fertilizers trapped inside augers can cause gas to form and, when heated, can explode.



720016ROM,SA,G -19-20MAY93

TS280 -UN-23AUG88

# Safety Signs



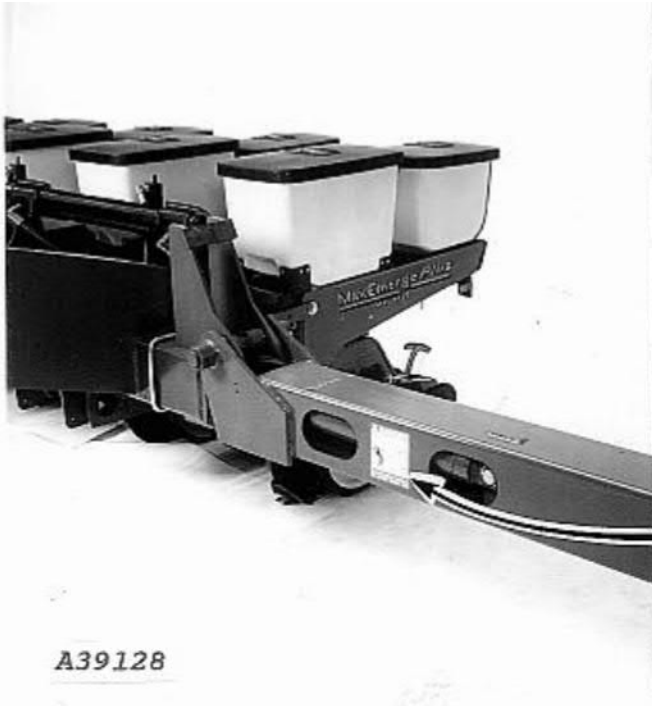
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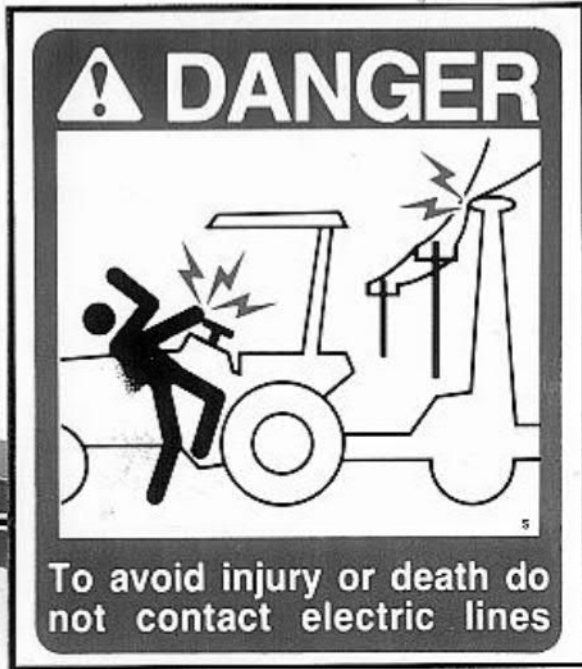
Markers

OM56578,10,B -19-20MAY96

Safety Signs



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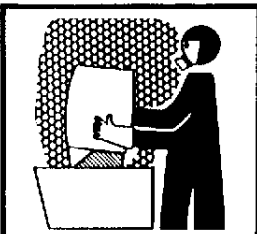


Markers

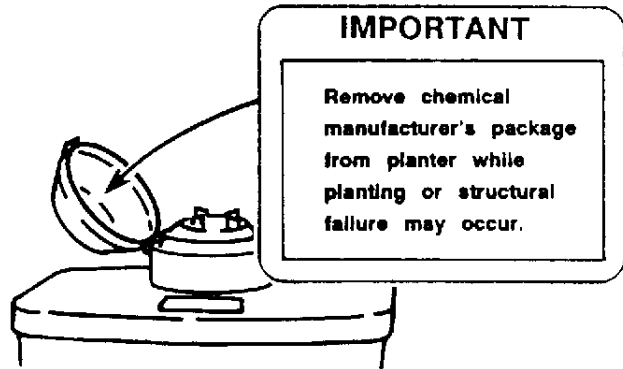
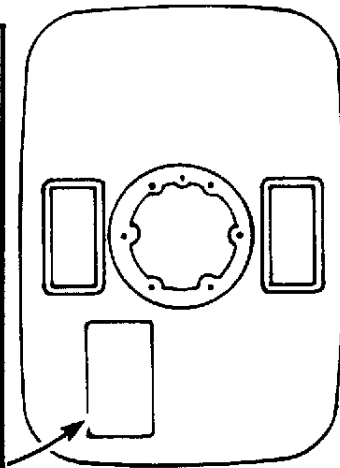
A39128 -19-04MAY96

OM56578,10,C -19-20MAY96

**WARNING**



Chemicals may cause eye, skin or breathing problems.  
Wear face mask, gloves, and goggles.  
Read and follow safety instructions on the chemical supplier's label.



**IMPORTANT**

Remove chemical manufacturer's package from planter while planting or structural failure may occur.

A36772

Lid Fill Closed Handling System

A36772 -19-09MAY95

Insecticide and/or Herbicide Hopper Lids

A54950,B -19-16MAY95

Safety Signs



Control Console

H43686

-19-13AUG91  
H43686

720016ROM,SS,E -19-24SEP92



Wing Frame

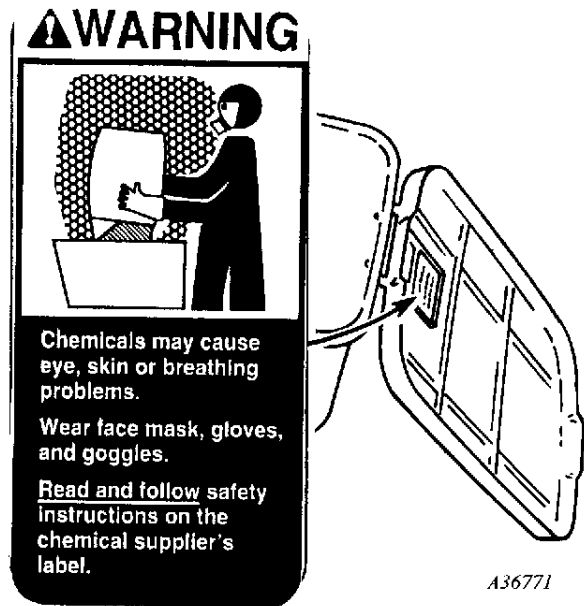


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720016ROM,SS,F -19-24SEP92

Safety Signs

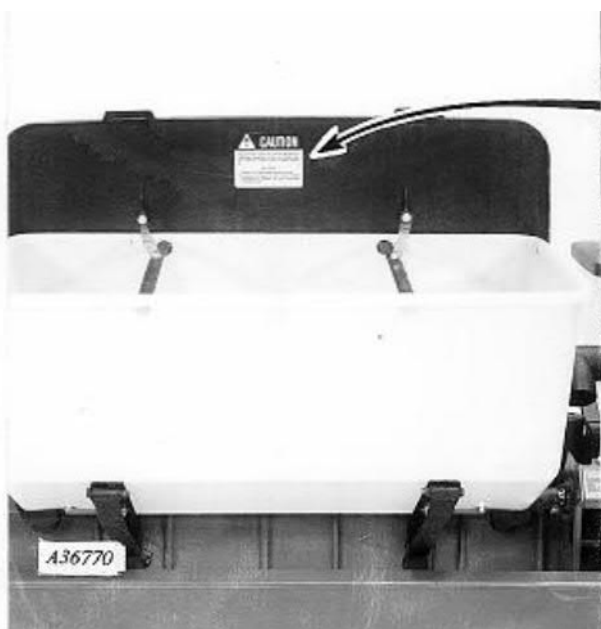


*Insecticide/Herbicide Hoppers*

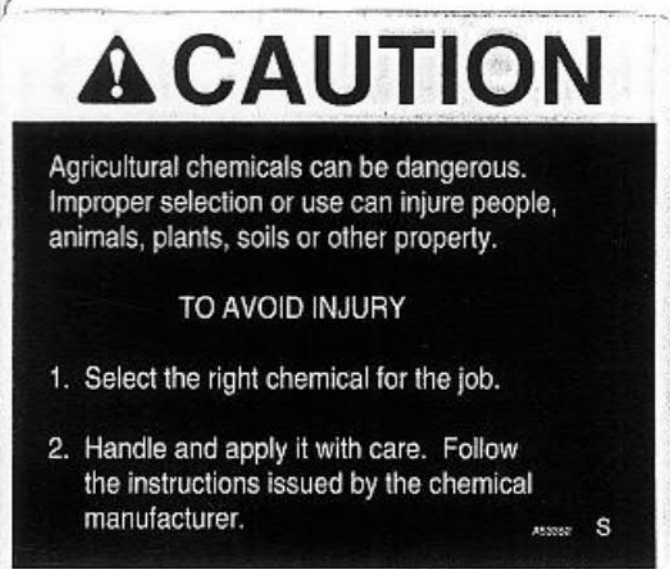
A36771

-19-09MAR95  
A36771

A54950.C -19-16MAY95



*Located on Dry Fertilizer Hoppers*



-19-08MAR95  
A36770

A54950.D -19-16MAY95



Safety Signs



Liquid Fertilizer Bracket

720016ROM,SS,H -19-24SEP92

A33631 -19-14MAR89

# Preparing the Planter

## TIGHTENING HARDWARE

Make sure cap screws and nuts are tight. (See Bolt Torque Chart in Service section.)

720016ROM,PI,A -19-24SEP92

## TIRE INFLATION

Inflate 7.50-20 6PR planter tires to 248 kPa (2.5 bar) (36 psi) of air pressure).

720016ROM,PI,B -19-13MAY97

## ROW WIDTHS

Your planter is available in the following row widths:

12-Row Wide	91 cm (36 in.) row width
	97 cm (38 in.) row width
16-Row Narrow	70 cm (27.5 in.) row width
	76 cm (30 in.) row width

A54950,PP,A -19-13MAY97

## LUBRICATION

Be sure your planter and planting units have been properly lubricated (see Lubrication section).



OM56578,15,A -19-20MAY96

# Preparing the Tractor

## GENERAL

For complete tractor operating instructions, refer to your tractor operator's manual.

OM56578,20,A -19-20MAY96

## CHECK TRACTOR HYDRAULIC SYSTEM

For complete tractor operating instructions, refer to your tractor operator's manual.

The vacuum meter pump hydraulic system is designed to be operated with closed center tractor hydraulic systems (tractors with load sensing or pressure on demand hydraulics are classified as closed center systems.) Open center tractor hydraulics are NOT compatible with system.

Minimum tractor standby pressure required to operate the vacuum meter pump hydraulic system is approximately 15 513 kPa (155 bar) (2250 psi) depending on frame configuration, planting speed and number of rows on planter.

**IMPORTANT: Do not use open center tractor hydraulic system to operate vacuum pump. Permanent damage to tractor pump may result.**

M54944A,C -19-24FEB97

## ROCKSHAFT SELECTOR

Set the rockshaft sensor for "POSITION SENSING" to prevent unexpected hitch movement.

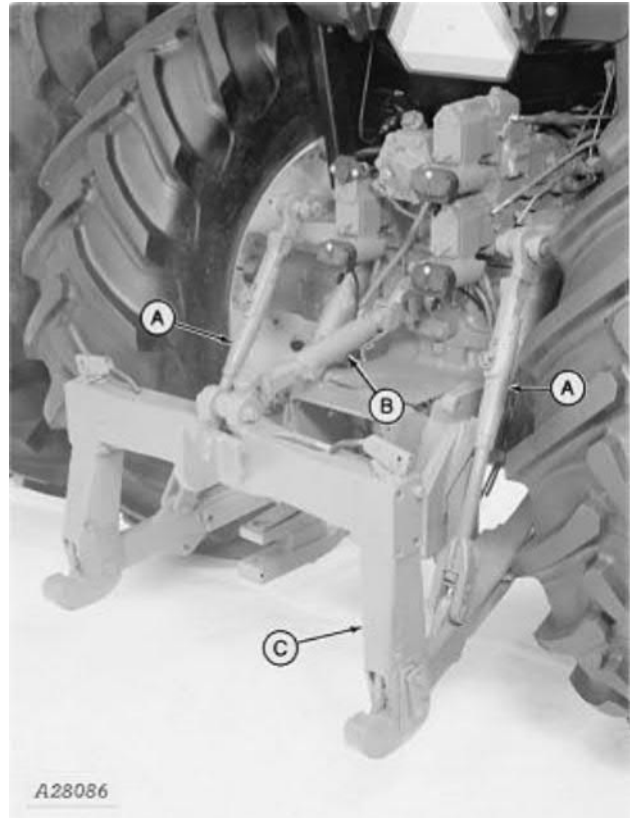
720016ROM,PT,C -19-24SEP92

## LINK LENGTHS

Set the lift links (A) short enough to provide adequate transport clearance.

Adjust the center link (B) until the quick-coupler (C) is vertical when in planting position.

**IMPORTANT: For added safety, always use a quick-coupler to make attaching and detaching a one-person operation.**



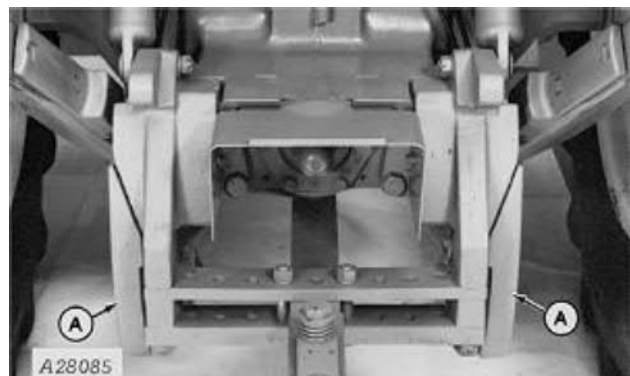
30—60 Series Tractors Illustrated

A54946,H -19-12MAY97

A28086 -UN-13OCT88

## SWAY BLOCKS

Set the sway blocks (A) in the down position to prevent side sway.



720016ROM,PT,E -19-24SEP92

A28085 -UN-13OCT88

## TIRE SIZE

20.8-38 x 10 ply-rated rear tractor tires minimum or duals are required for use with 16-row narrow Flex-Fold planters not equipped with fertilizer or ballast.

720016ROM,PT,F -19-24SEP92

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