

**1770 Front-Fold  
MaxEmerge® Plus  
Drawn Conservation  
Planter, 12-RN Rigid  
and Flex-Fold Frame**



**JOHN DEERE**

**OPERATOR'S MANUAL**

1770 Front-Fold MaxEmerge® Plus Drawn  
Conservation Planter, 12-RN Rigid and  
Flex-Fold Frame

**OMA60115 Issue F7 (English)**

**John Deere Harvester Works  
OMA60115 Issue F7**

Litho in U.S.A  
English

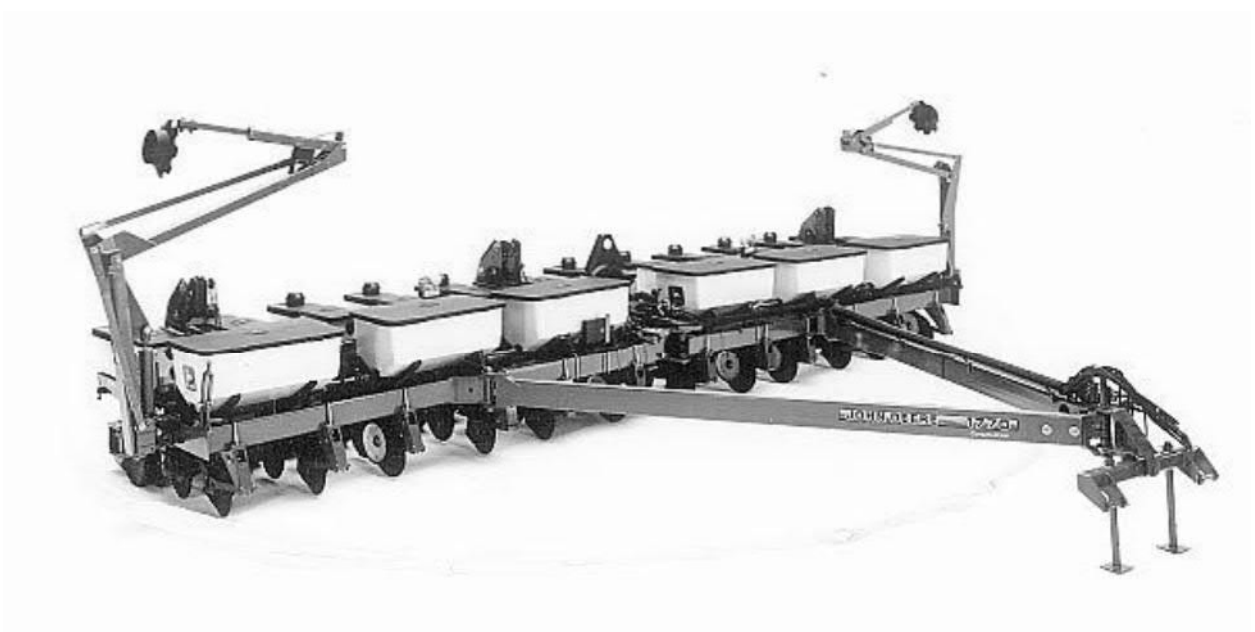


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OMA60115

Introduction



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1770 Flex-Fold 12-Row Narrow Drawn MaxEmerge® Plus Planter with  
VacuMeter Seed Metering System and Dry Fertilizer Attachment

A56576,A -19-05MAY97

# Contents

	Page		Page
<b>Safety</b> . . . . .	05-1	Connect SeedStar Monitor . . . . .	40-2
<b>Safety Signs</b> . . . . .	10-1	Set Valve Controls . . . . .	40-3
<b>Preparing the Planter</b>		Motor Return Coupler . . . . .	40-4
Tightening Hardware . . . . .	15-1	Hookup for Vacumeter™ . . . . .	40-5
Tire Inflation . . . . .	15-1	<b>Detaching from Tractor</b>	
Lubrication . . . . .	15-1	Check Hydraulic System . . . . .	45-1
<b>Preparing the Tractor</b>		Detaching Planter from Tractor . . . . .	45-2
Check Tractor Hydraulic System . . . . .	20-1	<b>Transporting</b>	
Rockshaft Selector Lever . . . . .	20-1	Transport Safely . . . . .	50-1
Link Lengths . . . . .	20-1	Folding the Planter . . . . .	50-2
Sway Blocks . . . . .	20-2	Unfolding the Planter . . . . .	50-7
Tire Size . . . . .	20-2	<b>Preparing the Vacuum Meter Unit</b>	
Check Tire Inflation . . . . .	20-2	Choosing Seed Disks . . . . .	55-1
Rear Wheel Weighting . . . . .	20-2	Selecting Seed Disks . . . . .	55-3
Setting Wheel Tread . . . . .	20-3	Seed Disk Recommendations . . . . .	55-4
Front End Weighting . . . . .	20-4	Checking Seed Disk Cell . . . . .	55-7
<b>Attaching to Tractor</b>		Installing Seed Disk . . . . .	55-7
Attach to Quick-Coupler . . . . .	25-1	Adjusting Vacuum Meter Baffle . . . . .	55-9
Stands . . . . .	25-2	Adjusting Meter Hub . . . . .	55-10
<b>Planter and 30—60 Series Tractor Hookup</b>		Installing Knockout Assembly . . . . .	55-12
Set Tractor Selective Control Valve Lever . . . . .	30-1	Installing Double Eliminator . . . . .	55-15
Selective Control Valve Lever Stop . . . . .	30-1	Selecting Correct Vacuum Meter Brush . . . . .	55-17
Connecting to Tractor . . . . .	30-4	How to Change Brush . . . . .	55-17
SeedStar™ Monitor Hook-Up . . . . .	30-5	Installing Brush . . . . .	55-17
<b>Planter and 7000 Series Tractor Hookup</b>		Check Hydraulic Connections . . . . .	55-18
Vacuum Meter Pump . . . . .	35-2	<b>Preparing the Plateless Meter Unit</b>	
Connecting to Tractor . . . . .	35-3	Plateless Seed Hoppers . . . . .	60-1
SeedStar Monitor Hook-Up . . . . .	35-4	Feed Cup Metering Unit . . . . .	60-3
Motor Return Coupler . . . . .	35-4	Replace Feed Cup With Finger Pickup . . . . .	60-7
Hookup for Vacumeter™ . . . . .	35-5	<b>Operating the Planter</b>	
<b>Planter and 8000 Series Tractor Hookup</b>		General . . . . .	65-1
Attaching and Detaching . . . . .	40-2	Raising and Lowering the Planter . . . . .	65-2
		Leveling the Planter . . . . .	65-2
		Half-Width Drive Disconnect . . . . .	65-3

Continued on next page

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Contents

	<b>Page</b>		<b>Page</b>
Countershaft Shear Pin . . . . .	65-4	Disk Closing Attachment . . . . .	100-8
Drill Shaft Drive Coupler Adjustment . . . . .	65-4	Angle Adjustment . . . . .	100-8
Marker Length . . . . .	65-5	Depth Adjustment . . . . .	100-9
Raising and Lowering Independent Markers . . . . .	65-6	Spring Pressure Adjustment . . . . .	100-9
Raising and Lowering Automatic Markers . . . . .	65-7	Rotary Scraper . . . . .	100-9
Marker Float Range . . . . .	65-8	Row Leveler Chain . . . . .	100-10
Marker Breakaway Bolt . . . . .	65-8	Frame Mounted Coulter . . . . .	100-10
Changing Planting Depth . . . . .	65-9	Coulter/Row Cleaner Height Adjustment . . . . .	100-11
Closing Wheel Adjustment . . . . .	65-10	<b>Granular Chemical Attachment</b>	
Adjusting Closing Wheel Down Force . . . . .	65-10	Granular Chemical Attachment . . . . .	105-1
Center (Align) Closing Wheels . . . . .	65-11	U.S. Measurement . . . . .	105-5
Stagger Closing Wheels . . . . .	65-11	Calibrating Insecticide/Herbicide Meter . . . . .	105-10
Walking Gauge Wheels . . . . .	65-12	Seed Furrow Insecticide Placement Bracket . . . . .	105-13
Filling Seed Hoppers . . . . .	65-13	Rear Mount Insecticide Spreader . . . . .	105-13
Emptying Seed Hoppers . . . . .	65-16	Herbicide Diffuser . . . . .	105-14
<b>How to Use Planting Rate Charts</b>		Windshield . . . . .	105-14
How to Use Planting Rate Charts . . . . .	70-1	Tine-Tooth Incorporator . . . . .	105-15
Changing Input Sprocket Combinations . . . . .	70-2	<b>Liquid Chemical Attachment</b>	
Changing Planting Rate Sprocket Combinations . . . . .	70-3	Liquid Herbicide Pre-Emerge Spray Attachment . . . . .	110-1
<b>Operating the Vacuum Meter</b>		<b>Dry Fertilizer Attachment</b>	
Vacuum Meter Operating Characteristics . . . . .	75-1	Dry Fertilizer . . . . .	115-1
Use of Talc Lubricant . . . . .	75-2	Checking Dry Fertilizer Rates . . . . .	115-4
Set Vacuum Level . . . . .	75-4	Storing Dry Fertilizer . . . . .	115-6
Vacuum Levels . . . . .	75-7	Surface Applicator Bracket . . . . .	115-6
<b>Vacuum Meter Seed Charts</b> . . . . .	80-1	<b>Liquid Fertilizer Attachment</b>	
<b>Operating the Plateless Meter</b>		Quik-Fill™ Liquid Fertilizer System . . . . .	120-1
Finger Pickup Metering Unit Operating Characteristics . . . . .	85-1	Operation on Hillsides . . . . .	120-3
Feed Cup Operating Characteristics . . . . .	85-2	System Operation . . . . .	120-4
<b>Plateless Meter Seed Charts</b> . . . . .	90-1	Priming and Initial Start Up of Pump . . . . .	120-5
<b>Checking Seed Population</b>		Setting Pump Drive . . . . .	120-6
Checking Seed Population . . . . .	95-1	How to Set Liquid Fertilizer Rates . . . . .	120-8
Drive Wheel Slippage . . . . .	95-3	Checking Fertilizer Rates . . . . .	120-10
<b>General Attachments</b>		Adjusting Pump to Pump Number Setting . . . . .	120-10
Unit Down Force Springs . . . . .	100-1	Changing Orifice in Special Fitting . . . . .	120-11
Heavy-Duty Down Force Springs . . . . .	100-1	Clean Strainer . . . . .	120-12
Unit Mounted Coulter . . . . .	100-3	Strainer Maintenance . . . . .	120-12
Conservation Furrowers . . . . .	100-4	<b>Double-Disk Fertilizer Opener Attachment</b>	
Tine-Tooth Tillage Attachment . . . . .	100-6	Double-Disk Fertilizer Openers . . . . .	125-1
Heavy-Duty Closing Wheels . . . . .	100-7	<b>Single-Disk Fertilizer Opener Attachment</b>	
		Single-Disk Fertilizer Openers . . . . .	130-1
		Setting the Gauge Wheel . . . . .	130-5

Continued on next page

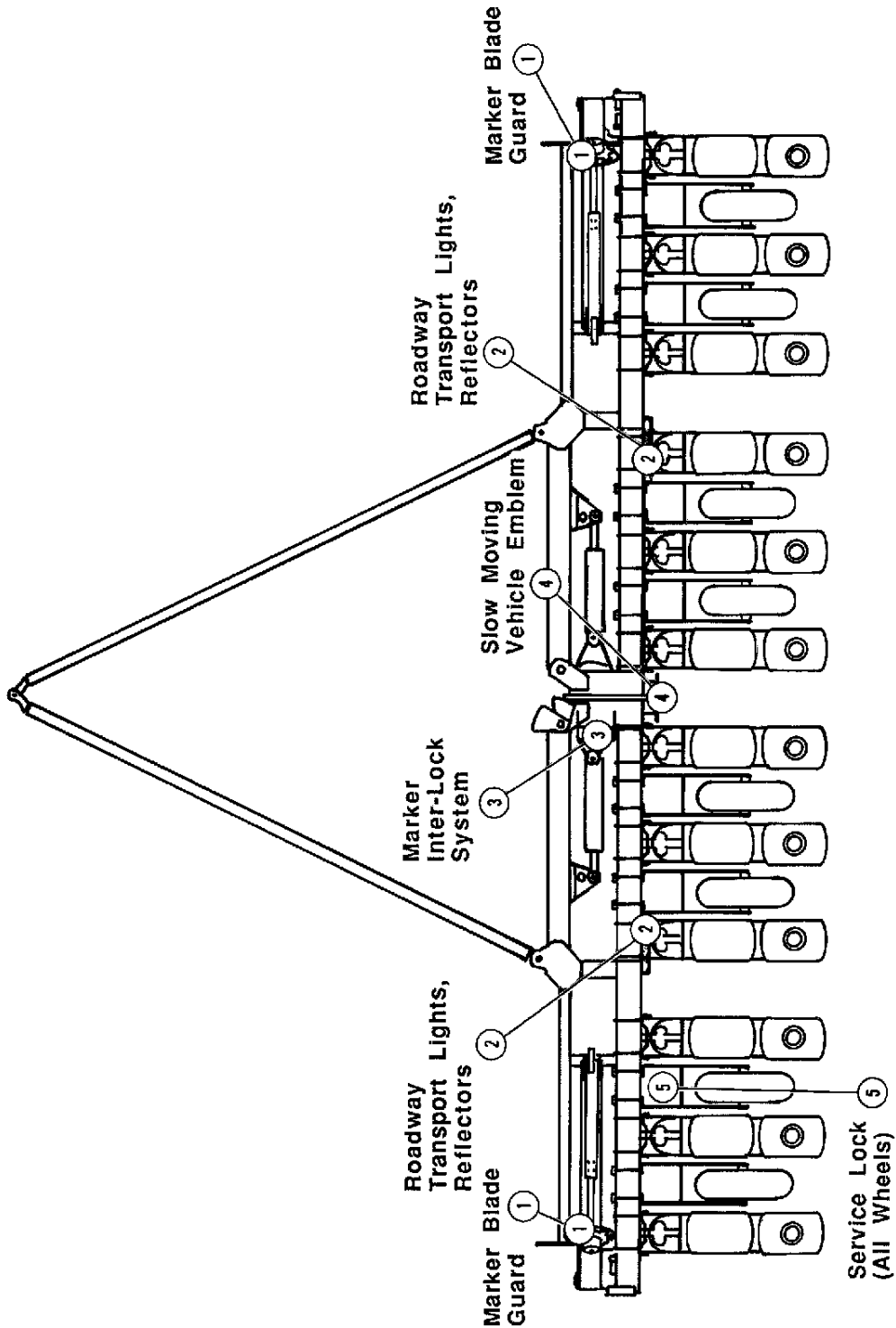
Contents

	Page		Page
Adjusting Down Force . . . . .	130-6	<b>Crime Prevention Tips</b> . . . . .	155-1
Adjusting Cast Spout . . . . .	130-9	<b>Specifications</b> . . . . .	160-1
Installing Heavy-Duty Spring . . . . .	130-10	<b>Index</b>	
<b>Troubleshooting</b> . . . . .	135-1		
<b>Lubrication</b>			
Grease . . . . .	140-1		
Multiluber Grease . . . . .	140-1		
Lubrication Symbols . . . . .	140-1		
Roller Chain and Pesticide Gear Lubrication . . . . .	140-3		
Special Lubricants for Vacuum Seed Meters . . . . .	140-9		
<b>Service</b>			
Practice Safe Maintenance . . . . .	145-1		
Install Service Stops . . . . .	145-4		
Service Tires Safely . . . . .	145-4		
Shear Protection Points . . . . .	145-5		
Replacing Marker Breakaway Bolt . . . . .	145-5		
Drive Wheels . . . . .	145-6		
Coulter Maintenance . . . . .	145-6		
Single-Disk Fertilizer Opener Maintenance . . . . .	145-7		
Cleaning Insecticide and/or Herbicide Hoppers . . . . .	145-8		
Vacuum Gauge Filter . . . . .	145-10		
Clean Vacuum Pump Motor Guard . . . . .	145-11		
Clean Vacuum Manifold System . . . . .	145-11		
Clean Vacuum Meter Drive . . . . .	145-12		
Seed Drive Mechanism Adjustment . . . . .	145-12		
Vacuum Meter Inspection and Service . . . . .	145-13		
Vacuum Motor Inspection . . . . .	145-16		
Installing New Vacuum Seal . . . . .	145-17		
Finger Pickup Mechanism . . . . .	145-17		
Adjusting Gauge Wheels . . . . .	145-24		
Replacing Seed Opener Blades and Seed Tube Guard . . . . .	145-25		
Cleaning Liquid Fertilizer Tanks . . . . .	145-26		
Clean Strainer Screen . . . . .	145-27		
Clean Special Fitting Screen . . . . .	145-28		
Dry Fertilizer Drive Shaft . . . . .	145-28		
Aligning Transmission Drive and Auger Shafts . . . . .	145-29		
Cleaning Dry Fertilizer Hoppers . . . . .	145-29		
<b>Storage</b>			
Beginning of the Season Service . . . . .	150-1		
Service at the End of the Season . . . . .	150-3		
Piston Pump . . . . .	150-5		

*Contents*

# Safety

## 1770 12-Row Narrow Planter



### SAFETY FEATURES OF THE 1770 12-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.



## 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

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## 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.



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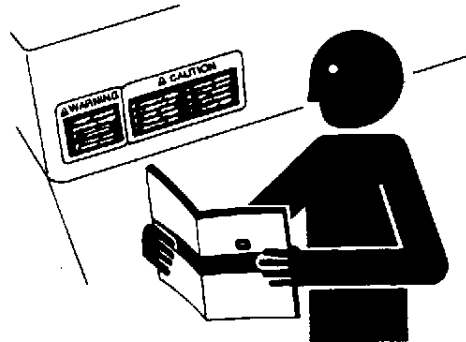
## FOLLOW SAFETY INSTRUCTIONS

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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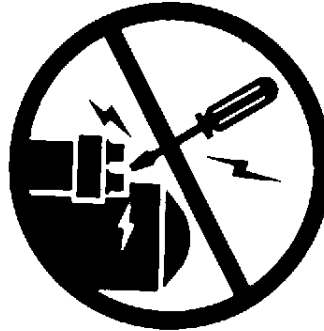


## PREVENT MACHINE RUNAWAY

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.

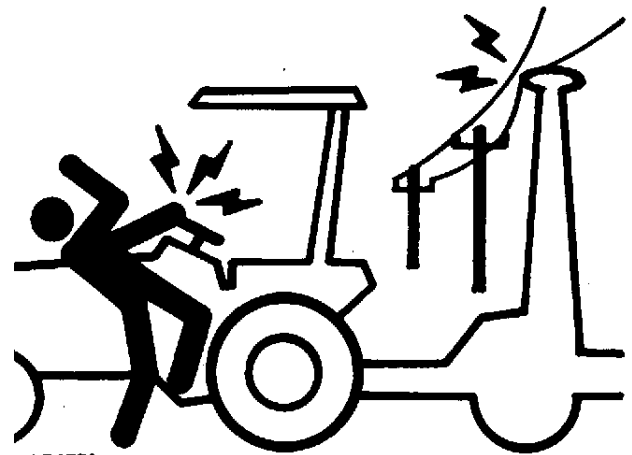
Stand clear of machine when wings are being folded or unfolded. Mechanical or hydraulic failure can allow wings to move rapidly.

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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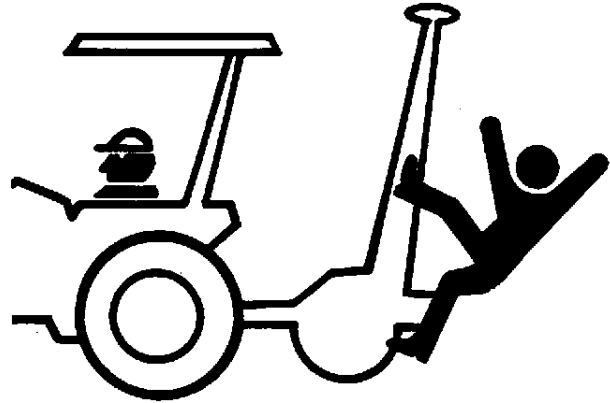
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## KEEP RIDERS OFF MACHINE

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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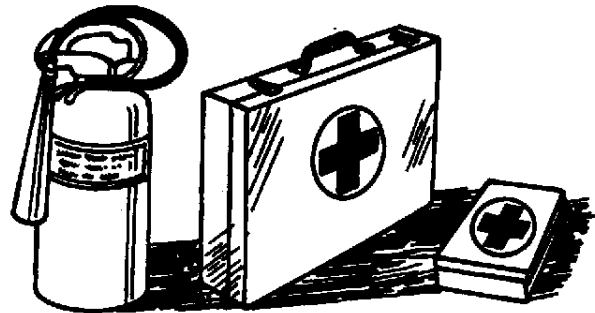
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## PREPARE FOR EMERGENCIES

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.



DX,FIRE2

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-UN-23AUG88

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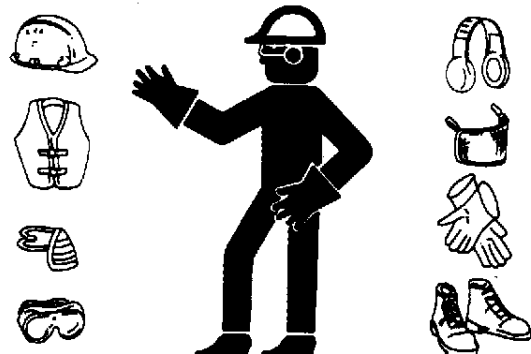
## WEAR PROTECTIVE CLOTHING

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.



DX,WEAR

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TS206



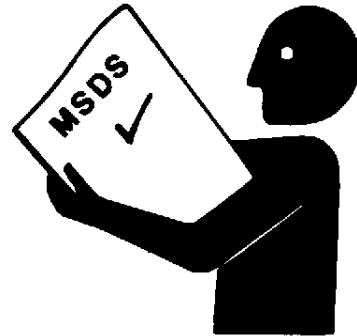
## HANDLE CHEMICAL PRODUCTS SAFELY

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.)



DX,MSDS,NA -19-03MAR93

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## 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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A34471 -UN-11OCT88



## 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.

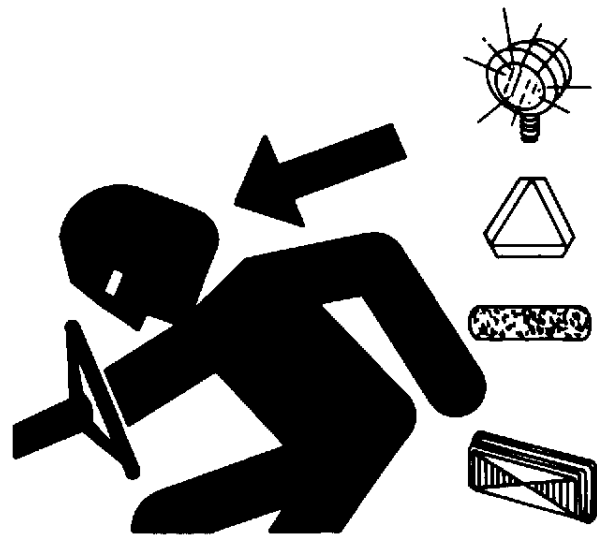
If hoppers are not washed, chemically treated dust may be on the hopper walls, resulting in exposure.

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.



T5951 -UN-12APR90

DX,FLASH -19-12SEP95



## TRANSPORT SAFELY

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

Reduce speed over rough ground.



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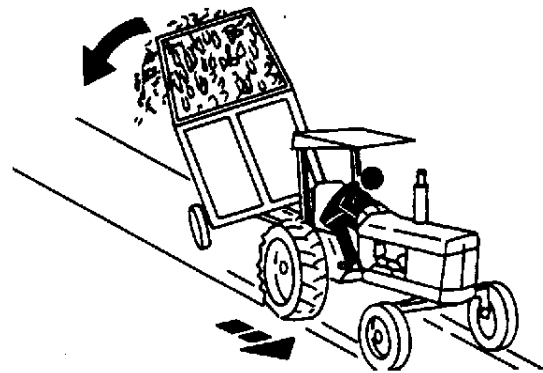
## TOW LOADS SAFELY

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

-UN-23AUG88  
TS216



## 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.



DX,SERV

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TS218

## REMOVE PAINT BEFORE WELDING OR HEATING

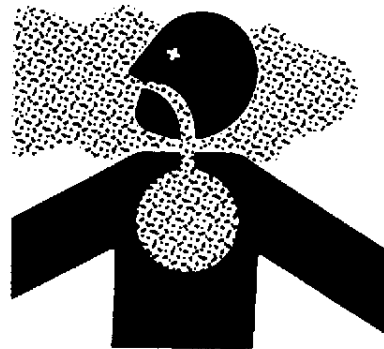
Avoid potentially toxic fumes and dust.

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

-UN-23AUG88

TS220



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## 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

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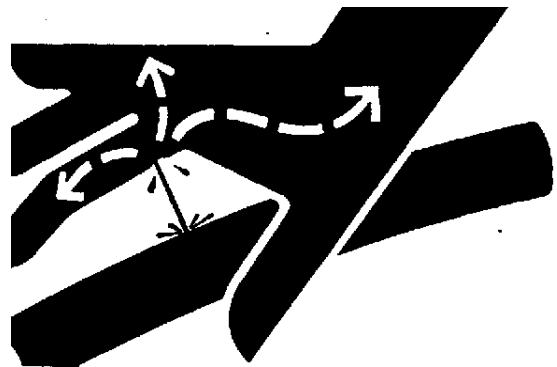
## AVOID HIGH-PRESSURE FLUIDS

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.



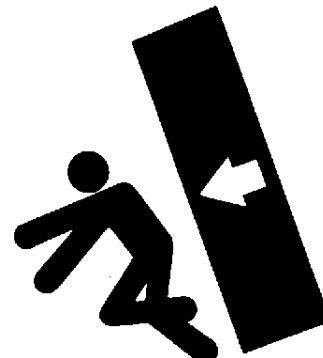
DX,FLUID -19-03MAR93

X9811 -JUN-23AUG88

## 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

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## DISPOSE OF WASTE PROPERLY

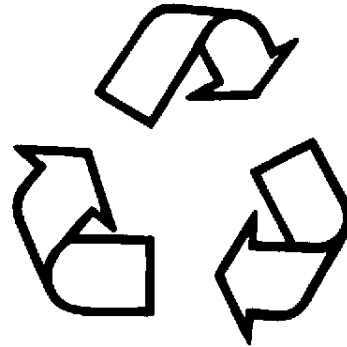
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



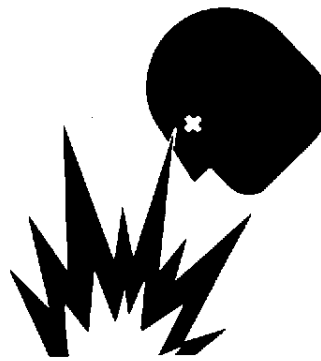
DX,DRAIN -19-03MAR93

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## 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.



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TS280 -UN-23AUG88

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