

# **6100 Self-Propelled Sprayer**

**John Deere Des Moines Works  
OMN200524 Issue J7  
(This manual replaces OMN200524 K6)**

LITHO IN 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 and safety signs on your machine may also be available in other languages. (See your John Deere dealer to order.)

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 given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers 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. File

the identification numbers in a secure place off the machine.

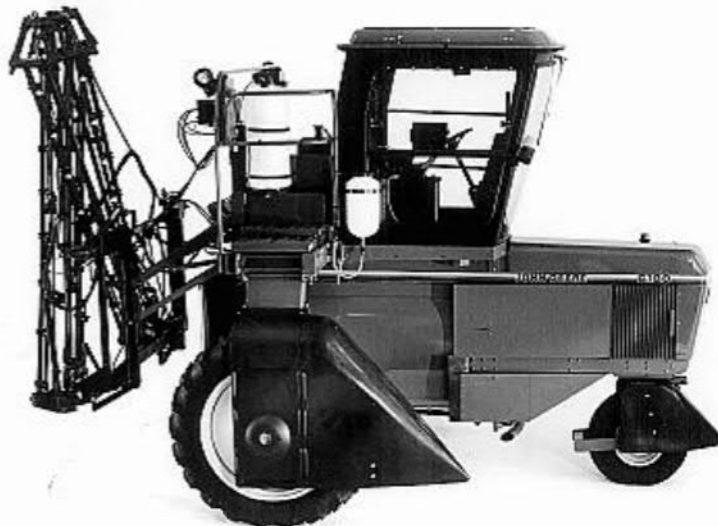
WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

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.

## CALIFORNIA PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



N47341  
-UN-13MAR96

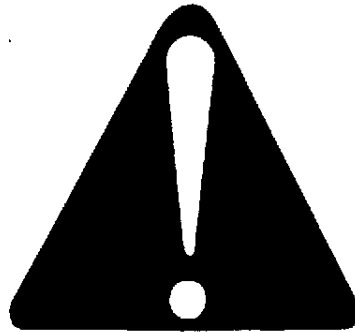
NX.6100OM,IFC -19-25AUG97

# 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 -19-03MAR93

T81389 -UN-07DEC68

## 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

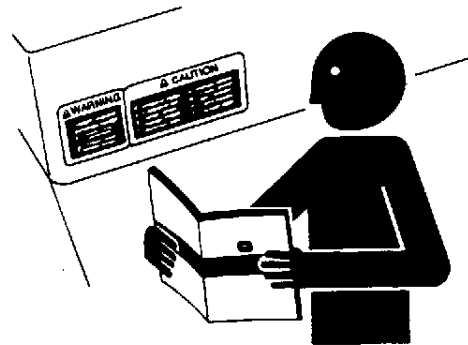
## FOLLOW SAFETY INSTRUCTIONS

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

TS201 -UN-23AUG88

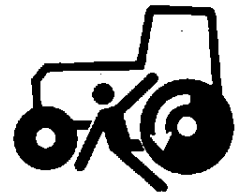
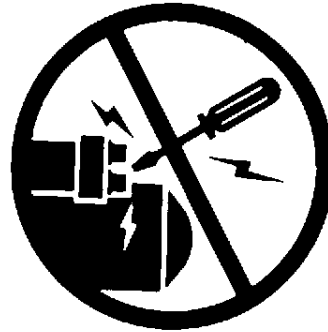


## PREVENT MACHINE RUNAWAY

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

## USE SEAT BELT PROPERLY

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

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



DX,ROPS1 -19-03MAR93

TS205 -UN-23AUG88

## OPERATE SAFELY

DO NOT start engine with hydro lever engaged.

DO NOT operate close to a ditch or creek.

DO NOT fold or unfold boom near overhead wires.

Apply both brakes evenly when making emergency stops and come to a complete stop before reversing directions.

Drive slowly over rough ground.

Slow down when turning.

Always shut off engine and engage parking brake when leaving machine. Remove key when leaving machine unattended.

Keep hands, feet and clothing away from moving parts.

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

Always engage hydro lever slowly and be prepared to disengage it if the front wheel begins to raise.

Avoid narrow tread setting when possible.

Keep the center of gravity low by keeping the solution tank full and by keeping the boom as low as possible.

If stuck in soft ground or a hole, back the machine out rather than trying to drive out straight ahead.

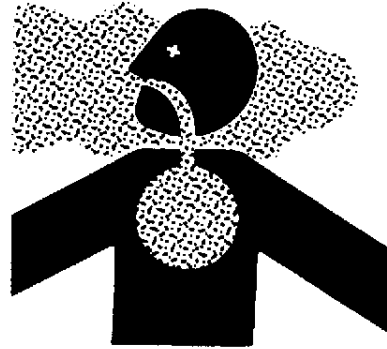
NX,6100C,A1A -19-26JUL96



## BEWARE OF EXHAUST FUMES

Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.

If you must operate in a building, be positive there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.



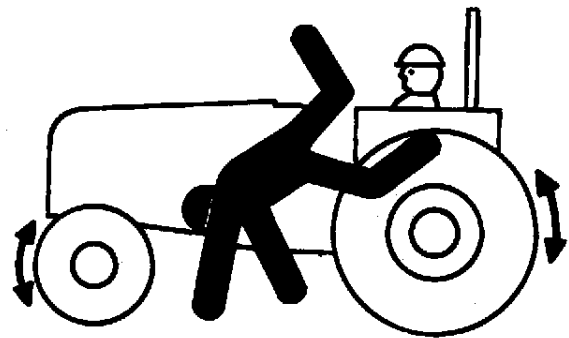
NX.6100C.A2 -19-20FEB96

TS220 -UN-23AUG88

## 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.

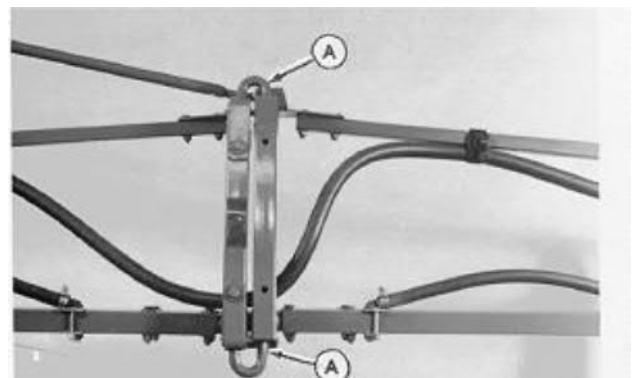
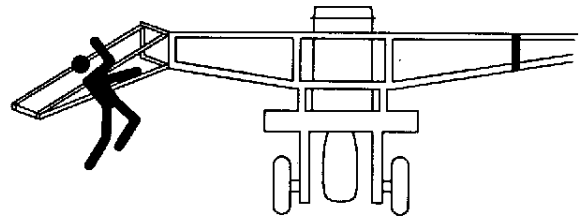


DX,RIDER -19-03MAR93

TS290 -UN-23AUG88

## FOLD 18.3 M (60 FT) REAR FOLD BOOM SAFELY

If folding 18.3 m (60 ft) rear fold boom without folding outer section, be sure both "J" pins (A) are inserted into outer boom hinge to keep outer section from swinging forward and striking the operator or cab.



NX.6100C.A3 -19-25AUG97

N44972 -UN-21AUG92

N82309N1 -UN-29SEP89



## 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 -19-03MAR93

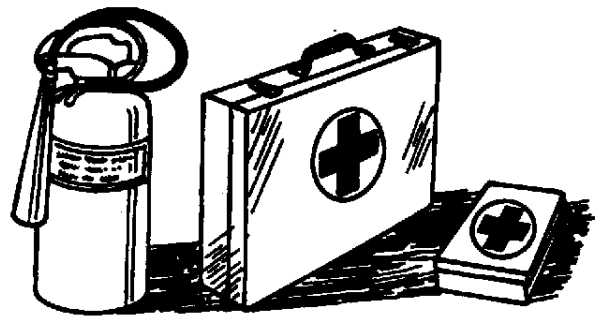
TS202  
-UN-23AUG88

## 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 -19-03MAR93

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 -19-16APR92

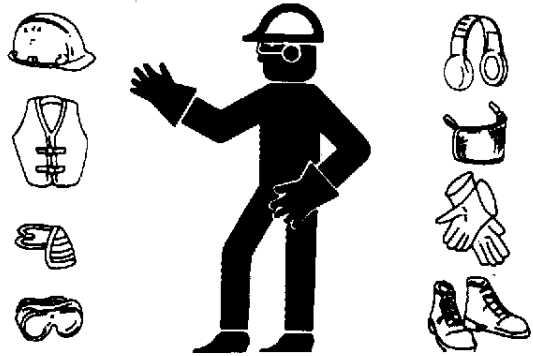
TS1356  
-UN-18MAR92



## WEAR PROTECTIVE CLOTHING

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

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



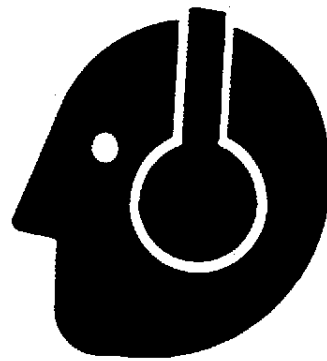
DX,WEAR2 -19-03MAR93

TS206 -UN-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 -19-03MAR93

TS207 -UN-23AUG88

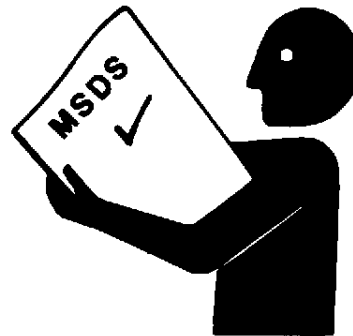
## HANDLE CHEMICAL PRODUCTS SAFELY

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

TS1132 -UN-26NOV90

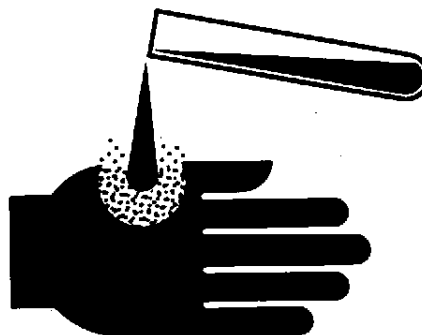
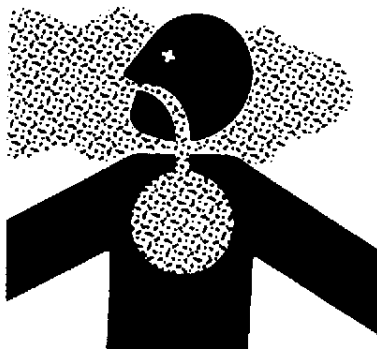


## AVOID CONTACT WITH PESTICIDES

This enclosed cab does not protect against inhaling harmful pesticides. If pesticide use instructions require respiratory protection, wear an appropriate respirator inside the cab.

Before leaving the cab, wear personal protective equipment as required by the pesticide use instructions. When re-entering the cab, remove protective equipment and store either outside the cab in a closed box or some other type of sealable container or inside the cab in a pesticide resistant container, such as a plastic bag.

Clean your shoes or boots to remove soil or other contaminated particles prior to entering the cab.



-UN-23AUG68

TS220

-UN-23AUG68

TS272

DX,CABS -19-03MAR93

## HANDLE CHEMICALS SAFELY

Keep dust away from skin and hair.

Keep containers low when pouring.

Let the wind blow fumes away from you when mixing or filling.

Wear a filtered respirator if you cannot avoid dust.



-UN-04OCT88

N35988

NX,6100C,A4 -19-20FEB96





Wear goggles to protect your eyes.

Wash exposed skin areas frequently—do not leave chemicals on your skin.

Do not smoke while handling chemicals.

Properly dispose of chemical containers, unused chemicals and left-over treated seed and fertilizer.

Read and observe manufacturer's recommendations.

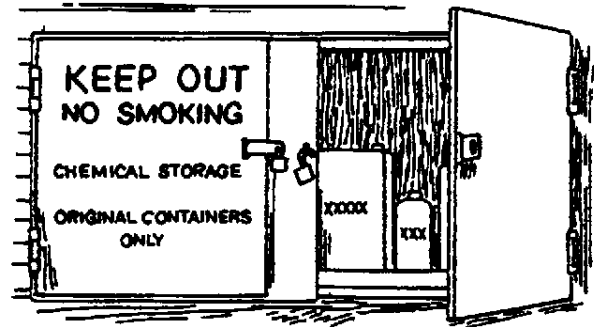


NX,6100C,A5 -19-20FEB96

N35989 -UN-04OCT88

Store chemicals in a separate, plainly marked LOCKED building.

Store chemicals in original containers with labels intact.



NX,6100C,A6 -19-20FEB96

N36950 -19-13MAR89



Select an area to fill, flush, calibrate and decontaminate sprayer where pesticides will not drift or run off to contaminate people, animals, vegetation, water supply, etc. Locate area to provide absolutely no opportunity for children to contact pesticides.

If spray material comes in contact with the body, wash IMMEDIATELY with clean water and detergent.

In event of nozzle clogging or other system malfunctions, stop engine, and release pressure from the system.

Never place nozzle tips or other parts to lips to blow out trash. Have spare tips available for replacement.

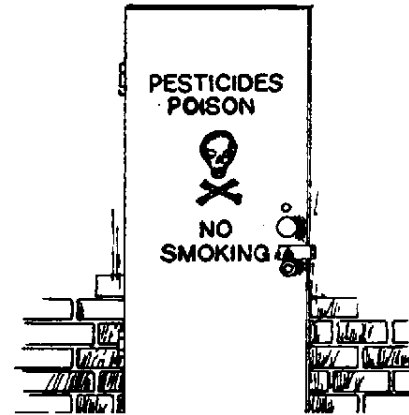
To minimize spray drift hazards:

- Use large nozzle tips operated at lower pressures
- Do not operate machine solution system at pressure over 345 kPa (3.5 bar) (50 psi).
- Do not spray when winds exceed 11 km/h (7 mph).

Wash spray residue from outside of machine to prevent corrosion.

Properly dispose of unused pesticide and flushing solutions.

Decontaminate equipment used in mixing, transferring and applying pesticide after use.



N33983 -19-31JAN89

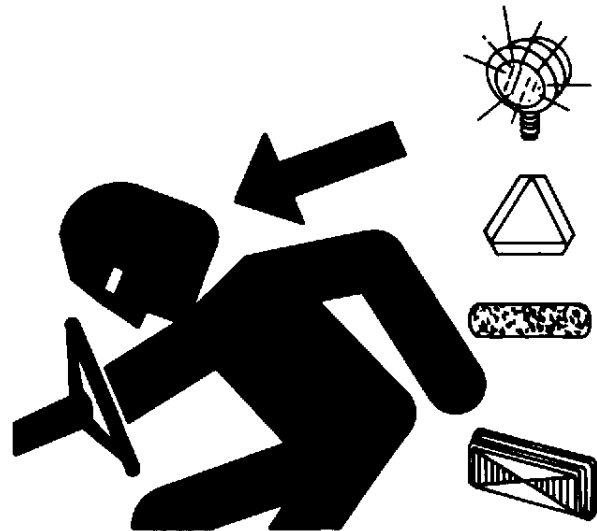
NX.6100C.A7 -19-20FEB96



## 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.



DX,FLASH -19-12SEP95

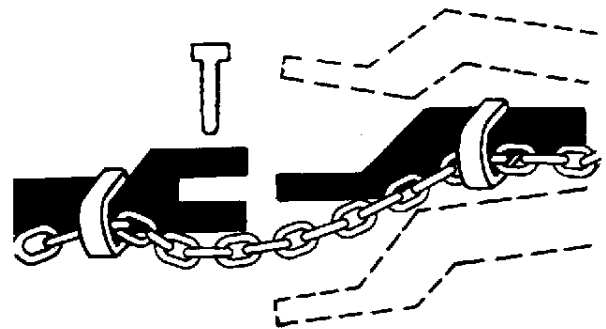
TSS951 -UN-12APR90

## 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 -19-03MAR93

TSS217 -UN-23AUG88



## TRANSPORT SAFELY

Keep away from overhead power lines. Serious injury or death may result should machine contact electrical wires. Know the transport height of your machine.

DO NOT transport without first folding the booms.

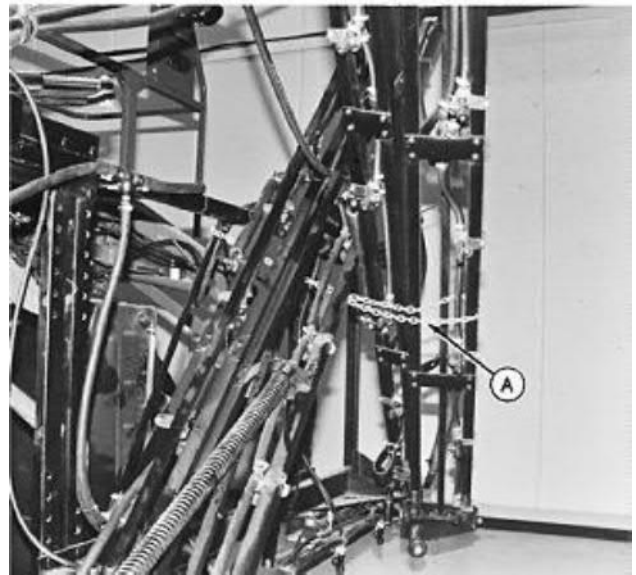
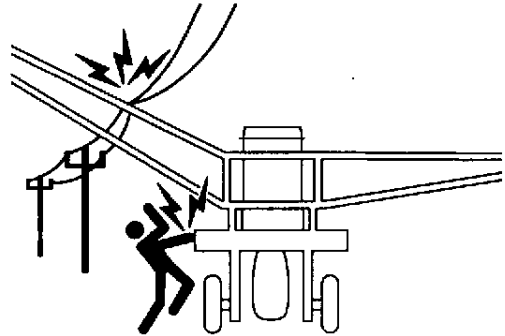
Fold left-hand boom FIRST, then right-hand boom. Attach safety chain (A) to boom as shown. Lower boom to lowest position for transport.

Latch brake pedals together.

Stop slowly to avoid "nose diving".

Keep SMV emblem and reflectors clean and in place.

When towing the machine with tow bar attachment, have valve in "TOW" position, have the warning lights flashing, have drive hubs disengaged and do not exceed 32 km/h (20 mph).



N44191 -UN-27APR92

N44190 -UN-27APR92

NX.6100C,A8 -19-25AUG97



## 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 -19-03MAR93

-UN-23AUG88  
TS218

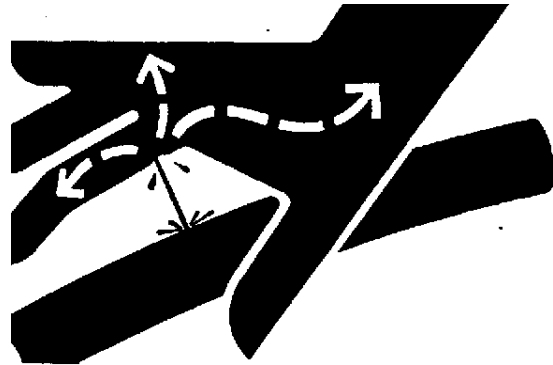
## AVOID HIGH-PRESSURE FLUIDS

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

-UN-23AUG88  
X9811



## SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.



DX,RCAP -19-04JUN90

TS281 -UN-23AUG88

## SERVICE TIRES SAFELY

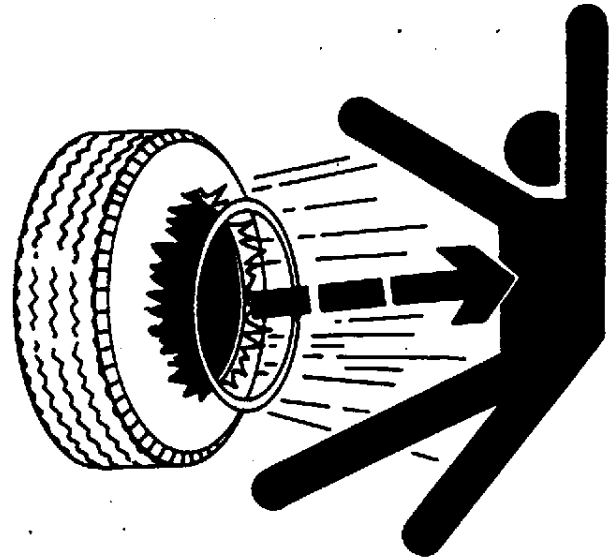
Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



DX,RIM -19-24AUG90

TS211 -UN-23AUG88



## DISPOSE OF WASTE PROPERLY

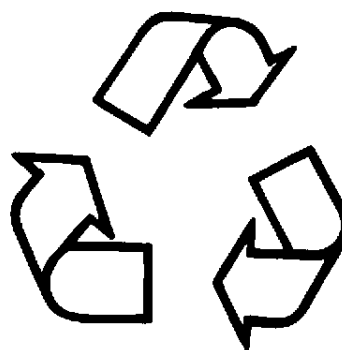
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



TS1133 -UN-26NOV90

DX,DRAIN -19-03MAR93

# Safety Signs and Features

**CAUTION**

1. Keep all shields in place.
2. Disengage and shut off all engine and/or motor power before servicing or unclogging machine.
3. Keep hands, feet, and clothing away from power driven parts.

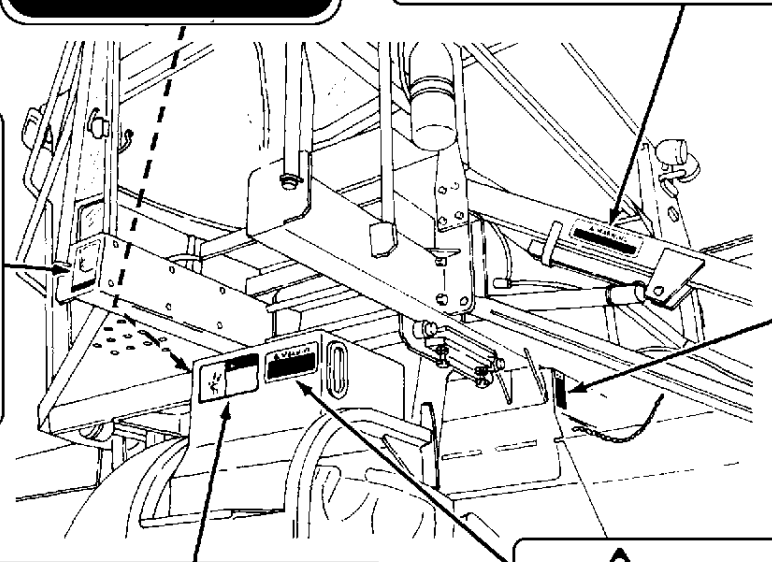
**WARNING**

Hydraulic failure may allow the boom to lower. To avoid crushing or pinch point injury, position cylinder lockup channel in "lock" position before servicing machine.

**WARNING**



Do Not Ride



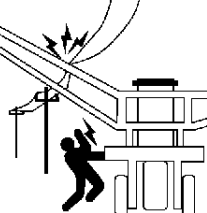
**CAUTION**

Agricultural chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soils or other property.

**TO AVOID INJURY**

1. Select the right chemical for the job.
2. Handle and apply it with care. Follow instructions issued by the chemical manufacturer.

**DANGER**



**TO AVOID INJURY OR DEATH DO NOT CONTACT ELECTRIC LINES WHEN MOVING OR OPERATING THIS MACHINE.**

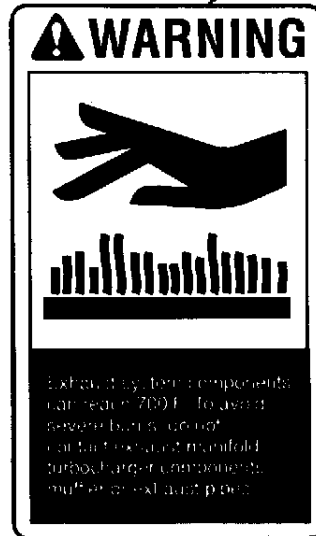
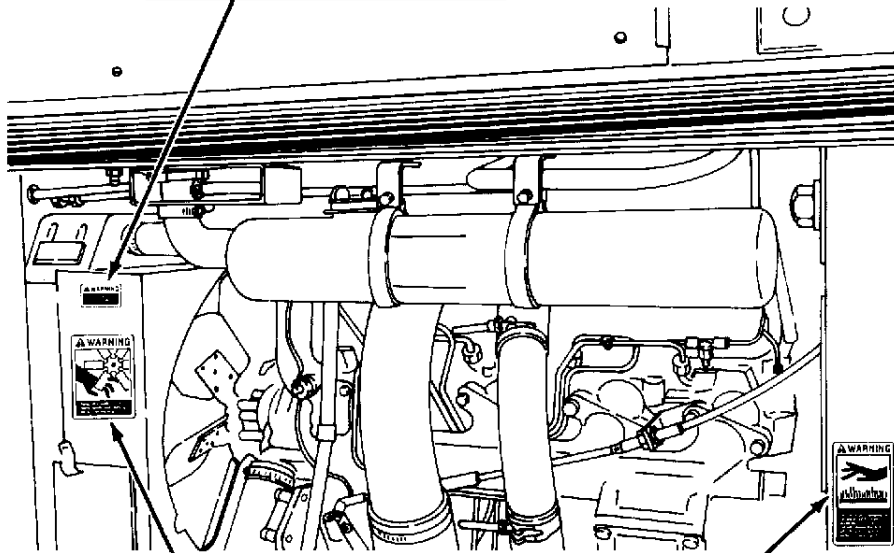
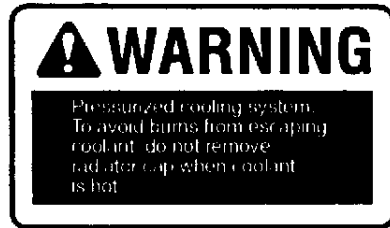
**WARNING**

- To avoid loss of control of machine when towing, install John Deere towing bundle including steering bypass valve.
- To avoid injury or death, engage or disengage hubs only when machine is attached to towing vehicle.
- Do not tow over 20 mph, (32 km/h).
- See Operator's Manual for complete towing instructions.

NX,6100T,A1 -19-25AUG97

N47353 -19-22FEB96





N45082 -19-23SEP92

NX.6100T.A2 -19-25AUG97

# CAUTION

1. Before operating machine, read Operator's Manual for complete instructions and safety information.
2. Make certain everyone is clear of machine before starting engine or operation.
3. Keep all riders off machine and equipment.
4. To help prevent tipping, reduce speed when turning or applying individual brakes or operating around hazards, on rough ground or slopes.
5. Do not operate on steep slopes.
6. Hazard of an overturn increases greatly with narrow wheel spacing. Avoid sharp turns.
7. Use flashing warning lights on highway unless prohibited by law.
8. Stop engine and lock brakes before dismounting. Wait for all movement to stop before servicing machinery.
9. Remove key if leaving machine unattended.

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N44184 -19-08APR92

NX.6100T.A3 -19-25AUG97

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